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THIRD SESSION OF THE TWELFTH PARLIAMENT

OF THE

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ALPHABETICAL INDEX

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OF THE

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CONTENTS OF VOLUME 1.

(This volume is bound in three parts.)

1. Report of the Auditor General for the year ended March 31, 1913. Volume I, Parts A to J, and Volume II, Parts K to U. Presented by Hon. Mr. Foster, January 28, 1914.
Printed for distribution and sessional papers.

1. Report of the Auditor General for the year ended March 31, 1913, Volume III, Parts V to Y. Presented by Hon. Mr. White, January 19, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 2.

2. The Public Accounts of Canada, for the fiscal year ended March 31, 1913 Presented by Hon. Mr. White, January 19, 1914.....*Printed for distribution and sessional papers.*

3. Estimates of sums required for the service of the Dominion for the year ending March 31, 1915. Presented by Hon. Mr. White, January 29 1914
Printed for distribution and sessional papers.

3a. Supplementary Estimates of sums required for the service of the Dominion for the year ending March 31, 1914. Presented by Hon Mr. White, March 20, 1914.
Printed for distribution and sessional papers.

4. Supplementary Estimates of sums required for the service of the Dominion for the year ending March 31, 1915. Presented by Hon. Mr White, May 28, 1914.
Printed for distribution and sessional papers.

5. Further Supplementary Estimates of sums required for the service of the Dominion for the year ending March 31, 1915. Presented by Hon. Mr. White, June 9, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 3.

6. List of Shareholders in the Chartered Banks of the Dominion of Canada as on December 31, 1913. Presented by Hon. Mr. White, January 19, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 4.

7. Report on dividends remaining unpaid, unclaimed balances and unpaid drafts and bills of exchange in Chartered Banks of the Dominion of Canada, for five years and upwards prior to December 31, 1913. Presented by Hon. Mr. White, March 16, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 5.

(This volume is bound in two parts.)

8. Report of Superintendent of Insurance for year ended 1913. Presented by Hon. Mr. White, June 2, 1914.
Printed for distribution and sessional papers.

9. Abstract of Statement of Insurance Companies in Canada for the year ended December 31, 1913. Presented by Hon. Mr. White, June 2, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 6.

10. Report of the Department of Trade and Commerce for the fiscal year ended March 31, 1913, Part I.—Canadian Trade. Presented by Hon. Mr. Foster, April 15, 1914.
Printed for distribution and sessional papers.

10*a*. Report of the Department of Trade and Commerce, for the year ended March 31, 1913: Part II.—Canadian Trade with (1) France, (2) Germany, (3) United Kingdom, and (4) United States. Presented by Hon. Mr. Foster, January 22, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 7.

10*b*. Report of the Department of Trade and Commerce for the fiscal year ended March 31, 1913: Part III.—Canadian Trade with Foreign Countries (except France, Germany, the United Kingdom and United States). Presented by Hon. Mr. Foster, April 15, 1914.
Printed for distribution and sessional papers.

10*c*. Report of the Department of Trade and Commerce, for the fiscal year ended March 31, 1913: Part IV.—Miscellaneous Information. Presented by Hon. Mr. Foster, April 27, 1914 .....*Printed for distribution and sessional papers.*

10*d*. Report of the Board of Grain Commissioners for Canada. Presented by Hon. Mr. Foster, June 4, 1914.....*Printed for distribution and sessional papers.*

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10*e*. Report of the Department of Trade and Commerce, for the fiscal year ending March 31, 1913: Part VI.—Subsidized Steamship Services, with Statistics showing Steamship Traffic to December 31, 1913, and Estimates for fiscal year 1914-1915. Presented by Hon. Mr. Foster, March 25, 1914.....*Printed for distribution and sessional papers.*

10*f*. Report of Trade and Commerce for fiscal year ended March 31, 1913: Part VII.—Trade of Foreign Countries, Treaties and Conventions. Presented by Hon. Mr. Foster, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 9.

11. Report of the Department of Customs for the year ended March 31, 1913. Presented by Hon. Mr. Reid, January 22, 1914.....*Printed for distribution and sessional papers.*

CONTENTS OF VOLUME 10.

12. Reports, Returns and Statistics of the Inland Revenues for the Dominion of Canada, for the year ended March 31, 1913. Part I.—Excise. Presented by Hon. Mr. Nantel, January 19, 1914.....*Printed for distribution and sessional papers.*

13. Part II.—Inspection of Weights and Measures, Gas and Electricity. Presented by Hon. Mr. Nantel, January 19, 1914.....*Printed for distribution and sessional papers.*

14. Reports, Returns and Statistics of the Inland Revenues for the Dominion of Canada for the year ended March 31, 1913. Part III.—Adulteration of Food. Presented by Hon. Mr. Nantel, February 11, 1914..... .....*Printed for distribution and sessional papers.*

15. Report of the Minister of Agriculture for the Dominion of Canada, for the year ended March 31, 1913. Presented by Hon. Mr. Burrell, January 22, 1914 .
Printed for distribution and sessional papers.

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15*a*. Report of the Dairy and Cold Storage Commissioner for the fiscal year ended March 31, 1913. (Dairying, Fruit, Extension of Markets and Cold Storage.) Presented by Hon. Mr. Burrell, May 5, 1914.....*Printed for distribution and sessional papers.*

15*b*. Report of the Veterinary Director General for the year ending March 31, 1913. Presented by Hon. Mr. Burrell, February 2, 1914.. *Printed for distribution and sessional papers.*

16. Report of the Director and Officers of the Experimental Farms for the years ending March 31, 1913. Presented by Hon. Mr. Burrell, April 7, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 12.

17. Criminal Statistics for the year ended September 30, 1912. (Appendix to the Report of the Minister of Trade and Commerce, for the year 1912.) Presented by Hon. Mr. Foster, February 20, 1914.....*Printed for distribution and sessional papers.*

18. Résumé of General Elections of 1896, 1900, 1904, 1908 and 1911, and of By-Elections held between July 11, 1896 and January 1, 1914. Presented by Hon. r. Coderre, January 27, 1914.....*Printed for distribution and sessional papers.*

18a. Return of By-elections for the House of Commons of Canada, held during the year 1913. Presented by Hon. Mr. Coderre, January 27, 1914.
Printed for distribution and sessional papers.

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19. Report of the Minister of Public Works on the works under his control for the fiscal year ended March 31, 1913. Presented by Hon. Mr. Rogers, January 19, 1914.
Printed for distribution and sessional papers.

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20. Report of the Department of Railways and Canals, for the fiscal period from April 1, 1912, to March 31, 1913. Presented by Hon. Mr. Reid, March 20, 1914.
Printed for distribution and sessional papers.

20a. Canal Statistics for the season of Navigation, 1913. Presented by Hon. Mr. Reid, March 12, 1914.....*Printed for distribution and sessional papers.*

20b. Railway Statistics of the Dominion of Canada for the year ended June 30, 1913. Presented by Hon. Mr. Cochrane, January 29, 1914.
Printed for distribution and sessional papers.

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20c. Eighth Report of the Board of Railway Commissioners for Canada, for the year ending March 31, 1913. Presented by Hon. Mr. Cochrane, January 22, 1914.
Printed for distribution and sessional papers.

20d. Telephone Statistics of the Dominion of Canada, for the year ended June 30, 1913. Presented by Hon. Mr. Cochrane, February 10, 1914.
Printed for distribution and sessional papers.

20e. Express Statistics of the Dominion of Canada, for the year ended June 30, 1913. Presented by Hon. Mr. Cochrane, February 20, 1914.
Printed for distribution and sessional papers.

20f. Telegraph Statistics of the Dominion of Canada, for the year ended June 30, 1913. Presented by Hon. Mr. Cochrane, February 10, 1914.
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21. Forty-sixth Annual Report of the Department of Marine and Fisheries, for the year 1912-1913.—Marine. Presented by Hon. Mr. Hazen February 2, 1914.
Printed for distribution and sessional papers.

21b. List of Shipping issued by the Department of Marine and Fisheries, being a list of vessels on the Registry Books of the Dominion of Canada, on December 31, 1913. Presented by Hon. Mr. Hazen, May 1, 1914..... *Printed for distribution and sessional papers.*

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22. Forty-sixth Annual Report of the Department of Marine and Fisheries, 1912-13.—Fisheries. Presented by Hon. Mr. Hazen, January 19, 1914.
Printed for distribution and sessional papers.

23. Supplement to the Forty-sixth Annual Report of the Department of Marine and Fisheries for the fiscal year 1912-13.—Steamboat Inspection Report. Presented by Hon. Mr. Hazen, March 27, 1914.....*Printed for distribution and sessional papers.*

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24. Report of the Postmaster General, for the year ended March 31, 1913. Presented by Hon. Mr. Pelletier, March 12, 1914.....*Printed for distribution and sessional papers.*

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(This volume is bound in two parts.)

25. Annual Report of the Department of the Interior, for the fiscal year ending March 31, 1913. —Volume I. Presented by Hon. Mr. Roche, February 23, 1914.
Printed for distribution and sessional papers.

25. Annual Report of the Department of the Interior, for the fiscal year ending March 31, 1913. —Volume II. Presented by Hon. Mr. Roche, March 9, 1914.
Printed for distribution and sessional papers.

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25*c*. Report of Progress of Stream Measurements, for the calendar year 1913, prepared under the direction of F. H. Peters, C.E., Commissioner of Irrigation. Presented by Hon. Mr. Roche, March 26, 1914.....*Printed for distribution and sessional papers.*

25*d*. Twelfth Report of the Geographic Board of Canada, for the year ending June 30, 1913. Presented by Hon. Mr. Roche, February 2, 1914.
Printed for distribution and sessional papers.

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25*e*. Manitoba Water-powers,

25*f*. Railway Belt Hydrographic Survey for 1911-1912. Presented, 1914.

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26. Summary Report of the Geological Survey, Department of Mines, for the calendar year 1912. Presented by Hon. Mr. Coderre, 1914.
Printed for distribution and sessional papers.

26*a*. Summary Report of the Mines Branch for the calendar year 1912. Presented 1914.
Printed for distribution and sessional papers.

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27. Report of the Department of Indian Affairs for the year ended March 31, 1913. Presented by Hon. Mr. Roche, January 27, 1914.....*Printed for distribution and sessional papers.*

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28. Report of the Royal Northwest Mounted Police, 1913. Presented by Hon. Mr. Borden, January 19, 1914.....*Printed for distribution and sessional papers.*

28*a*. Statement of Magisterial cases entered, and convictions obtained by the Royal Northwest Mounted Police in the Provinces of Alberta and Saskatchewan, the Yukon Territory and a portion of Manitoba, during the years 1909 to 1913. Presented by Hon. Mr. Borden, February 16, 1914.....*Not printed.*

29. Report of the Secretary of State of Canada for the year ended March 31, 1913. Presented by Hon. Mr. Coderre, February 9, 1914....*Printed for distribution and sessional papers.*

29*a*. Report of the Secretary of State for External Affairs for the year ended March 31, 1913. Presented by Hon. Mr. Borden, January 19, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 25.

29*c*. Documents *re* Constitutional History of Canada.—(Senate).
Printed for distribution and sessional papers.

29*c*. Public Archives.—Documents relating to the Constitutional History of Canada, 1791-1818, selected and edited with notes by Arthur G. Doughty and Duncan A. McArthur. Presented by Hon. Mr. Coderre, March 27, 1914.
Printed for distribution and sessional papers.

CONTENTS OF VOLUME 26.

30. The Civil Service List of Canada, 1913. Presented, 1914.
Printed for distribution and sessional papers.

31. Fifth Annual Report of the Civil Service Commission of Canada for the year ended August 31, 1913. Presented by Hon. Mr. Coderre, March 18, 1914.
Printed for distribution and sessional papers.

32. Annual Report of the Department of Public Printing and Stationery for the fiscal year ended March 31, 1913. Presented by Hon. Mr. Coderre, March 11, 1914.
Printed for distribution and sessional papers.

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33. The Report of the Joint Librarians of Parliament. Presented by the Hon. The Speaker, January 15, 1914.....*Not printed.*

34. Report of the Minister of Justice as to Penitentiaries of Canada, for the fiscal year ended March 31, 1913.....*Printed for distribution and sessioanl papers.*

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35. Report of the Militia Council for the Dominion of Canada, for the fiscal year ending March 31, 1913. Presented by Hon. Mr. Hughes, March 9, 1914.
Printed for distribution and sessional papers.

36. Report of the Department of Labour for the fiscal year ending March 31, 1913. Presented by Hon. Mr. Crothers, January 19, 1914....*Printed for distribution and sessional papers.*

36a. Sixth Report of the Registrar of Boards of Conciliation and Investigation of the proceedings under "The Industrial Disputes Investigation Act, 1907," for the fiscal year ending March 31, 1913. Presented by Hon. Mr. Crothers, January 19, 1914.
Printed for distribution and sessional papers.

36b. Report on Strikes and Lockouts in Canada, from 1901 to 1912. Presented by Hon. Mr. Crothers, January 19, 1914 .....*Printed for distribution and sessional papers.*

37. Ninth Annual Report of the Commissioners of the Transcontinental Railway, for the year ended March 31, 1913. Presented by Hon. Mr. Cochrane, January 22, 1914.
Printed for distribution and sessional papers.

37a. Interim Report of the Commissioners of the Transcontinental Railway, for the nine months ended December 31, 1913. Presented by Hon. Mr. Cochrane, February 18, 1914.
Not printed.

38. Report of the Department of the Naval Service, for the fiscal year ending March 31, 1913. Presented by Hon. Mr. Hazen, January 22, 1914.
Printed for distribution and sessional papers.

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39. A detailed statement of all bonds or securities registered in the Department of the Secretary of State of Canada, since last return (11th December, 1912) submitted to the Parliament of Canada under Section 32 of Chapter 19, of the Revised Statutes of Canada, 1906. Presented by Hon. Mr. Coderre, January 22, 1914.....*Not printed.*

40. Return to an Order of the House of April 7, 1913, for a copy of all accounts, vouchers and charges incurred by and relating to the Lobster Hatchery and Patrol Boat *Daris* during the season of 1912, to December 31, 1912, with the names of the officers and crews, and the wages paid to each. Presented January 19, 1914—*Mr. Kyte*.....*Not printed.*

41. Return to an Order of the House April 21, 1913, for a Return showing the names and the respective ranks and positions of the officers now on duty on the *Niobe* at Halifax, under the Department of Naval Affairs; the number of men now on duty as seamen or other like positions on the *Niobe*; the number of men dropped from the service on the *Niobe* since July 1, 1912; and if any efforts have been made to recruit men for the *Niobe* since July 1, 1912. Presented January 19, 1914—*Mr. Macdonald*...*Not printed.*

42. Return to an Order of the House of May 12, 1913.—1. For a Return showing the respective names, duties and salaries of Officials of the Immigration Department of both Inside and Outside Service on March 31, 1911.

2. The respective names, duties and salaries of Officials of the Immigration Department of both Inside and Outside Service on March 31, 1913. Presented January 19, 1914.—*Mr. Oliver* ..... *Not printed.*

43. Return to an Order of the House of February 24, 1913, for a copy of all regulations relating to the disposition of Dominion Lands made by the Minister of the Interior from October 12, 1911, to January 1, 1912, and of the regulations for the placing of half-breed scrip on homestead or other lands, made by the Minister of the Interior from October 12, 1911, to January 1, 1912. Presented January 19, 1914.—*Mr. Oliver.*
Not printed.

44. Return to an Order of the House of January 15, 1913, for a copy of all charges, correspondence, letters, telegrams nd other documents relative to the dismissal of Horace Rindress, Quarantine Medical Officer at North Sydney, in the Riding of North Cape Breton and Victoria, and of the evidence taken and report of investigation held by H. P. Duchemin, in regard to same, and a detailed statement of the expenses of such investigation. Presented January 19, 1914.—*Mr. McKenzie*.....*Not printed.*

44a. Supplementary Return to an Order of the House of December 11, 1912, for a copy of all papers, documents and correspondence relating to the dismissal of A. T. Doucet, Postmaster and Collector of Customs at Salmon River, Digby County, N.S. Presented January 19, 1914—*Mr. Maclean (Halifax)*.....*Not printed.*

44b. Return to an Order of the House of April 21, 1913, for a copy of the charges made against Alexis Bourque, Storm Signal Agent at Bonaventure, on which he was dismissed by the Minister of Marine and Fisheries, and a copy of all letters and other documents bearing on the appointment of his successor. Presented January 23, 1914.—*Mr. Marcil (Bonaventure)*..... ..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

44*c*. Return to an Order of the House of January 29, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Department of Marine and Fisheries, or any Department of the Government, relating to the dismissal of Patrick Conway, Lightkeeper at White Head Island, N.S., and if there was an investigation the names of the witnesses, a copy of the evidence, and a detailed statement of the expenses of such investigation. Presented January 21, 1914.—*Mr. Sinclair*..... *Not printed.*

44*d*. Return to an Order of the House of May 7, 1913, for a copy of all papers, documents, telegrams and correspondence in connection with the dismissal of Captain Wm. Smith, Coxswain, of the lifeboat at Blanche, Shelburne County, N.S. Presented January 21, 1914.—*Mr. Law*..... *Not printed.*

44*e*. Return to an Order of the House of March 3, 1913, for a Return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of King's, Province of Nova Scotia, in connection with any of the Departments of the public service, not including cases in which orders have already passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the Departments of the Government, also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid, or to be paid, by any Department in connection with the said dismissals and investigations or removals from office. Presented January 21, 1914.—*Mr. McKenzie*.....*Not printed.*

44*f*. Return to an Order of the House of the 23rd April, 1913, for a copy of the charges made by Messrs. J. A. Mousseau, A. Godbout and J. Blondin, against Jos. E. A. Landry, keeper of the lighthouse at St. Omer, Quebec, on which he was dismissed for alleged political partisanship. Presented January 21, 1914.—*Mr. Marcil (Bonaventure)*. *Not printed.*

44*g*. Return to an Order of the House of the 29th January, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Colin McIsaac, preventive officer at Port Hood, Inverness County, N.S. Presented January 21, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

44*h*. Return to an Order of the House of the 19th May, 1913, for a copy of all petitions and correspondence relating to the dismissal of Mr. Pesha, postmaster at Kent Bridge, Ontario. Presented January 22, 1914.—*Sir W. Laurier*.....*Not printed.*

44*i*. Return to an Order of the House of the 29th January, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Post Office Department or any department of the Government, relating to the dismissal of John F. Reeves, postmaster at Mulgrave, N.S., and if there was an investigation, the names of all witnesses examined, a copy of the evidence, and a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. Sinclair*..... *Not printed.*

44*j*. Return to an Order of the House of the 29th January, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Havelock McLeod, postmaster at Big Intervale, North East Margaree, Inverness County, Nova Scotia. Presented January 22, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

44*k*. Return to an Order of the House of the 21st April, 1913, for a copy of all documents, petitions, correspondence, messages, inquiries, reports, &c., relating to the dismissal of S. Lapointe, postmaster of St. Eloi, County of Temiscouata, and to the appointment of his successor. Presented January 22, 1914.—*Mr. Gauvreau*.....*Not printed.*

44*l*. Return to an Order of the House of the 3rd February, 1913, for a copy of all correspondence, letters, telegrams and other documents relative to the dismissal of William Bow, postmaster at Winchester Village, County of Dundas, and of all recommendations for the appointment of his successor. Presented January 22, 1914.—*Mr. MacNutt*. *Not printed.*

44*m*. Return to an Order of the House of the 26th March, 1913, for a copy of all charges, correspondence, letters, telegrams, petitions and other documents relating to the dismissal of Mrs. Ellen O'Neil, postmistress at O'Neil's post office, Parish of Moncton, County of Westmorland, New Brunswick, and of all evidence, if any, taken in regard to the same, and of all reports concerning same; and also a copy of all recommendations, correspondence, letters, telegrams, petitions and other documents relating to the appointment of a successor, or of Robert C. Kelly as postmaster of or at the said O'Neil post office, and of all reports, if any, as to the proper location of the office. Presented January 22, 1914. —Mr. Emmerson .....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

44*n*. Return to an Order of the House of the 21st April, 1913, for a copy of the charges made against Alex. Lahillois, postmaster of Miguasha, on which his dismissal took place, and of all letters and documents regarding the appointment of John Caissy in his place. Presented January 22, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

44*o*. Return to an Order of the House of the 21st April, 1913, for a copy of all letters and other documents containing evidence or charges against Madame Z. Marcotte, postmistress of Nouvelle West, Bonaventure County, on which the Postmaster General acted in removing her from office, and also of letters and other documents regarding the appointment of Mr. Lazare Fallu in her stead. Presented January 22, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

44*p*. Return to an Order of the House of the 28th April, 1913, for a copy of all complaints, accusations, correspondence, petitions, and telegrams respecting the dismissal of Joseph Verault, postmaster at Guay, County of Lévis, of the evidence and report made following the inquiries held by the inquiring Commissioner Smith and the inquiring Commissioner Jolicœur in this matter; also the names of the witnesses summoned and heard, with a copy of the evidence heard at each inquiry, the names of those who represented the Government at these inquiries, and a detailed statement of the expenses caused by these inquiries, with a copy of all documents respecting the appointment of his successor, such as petitions, letters of recommendation, &c. Presented January 22, 1914.—*Mr. Bourassa*.....*Not printed.*

44*q*. Return to an Order of the House of the 2nd June, 1913, for a copy of all telegrams, papers and correspondence in the possession of the Post Office Department, or with any of the officials thereof, regarding the removal from office of the postmaster of Osage, Saskatchewan, and of the appointment of a successor thereto; and of all correspondence bearing upon the said removal or appointment with the post office inspector for that portion of the province of Saskatchewan, and of all other letters and documents with respect thereto. Presented January 22, 1914.—*Mr. Carvell*.....*Not printed.*

44*r*. Return to an Order of the House of the 29th January, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Post Office Department, or any department of the Government, relating to the dismissal of George Taylor, postmaster at Bickerton, N.S., and if there was an investigation, the names of all witnesses examined, a copy of the evidence and a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*

44*s*. Return to an Order of the House of the 21st April, 1913, for a copy of all correspondence, telegrams, complaints, affidavits, reports, recommendations, requests, certificates and other documents, relating to the dismissal of Mademoiselle Paul Hus, as postmistress of the Parish Ste. Victoire, County of Richelieu, and the appointment of Mr. Paul Bardier, of the same place, as postmaster. Presented January 22, 1914.—*Mr. Cardin.*
Not printed.

44*t*. Return to an Order of the House of the 3rd March, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Parker S. Hart, postmaster at South Manchester, Guysborough County, N.S., and of all evidence taken and report of investigation held by H. P. Duchemin in regard to the same, and also a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*

44*u*. Return to an Order of the House of the 17th February, 1913, for a copy of all complaints and charges made against Charles L. Gass, late postmaster at Bayfield, Antigonish County, of the evidence taken, if any, before Commissioner Duchemin, and of his report thereon, and of all letters, telegrams and documents of every kind relating to his dismissal and the appointment of his successor. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

44*v*. Return to an Order of the House of the 27th January, 1913, for a copy of all documents, correspondence, letters, reports, &c., relating to the dismissal of Madame Belzil, postmistress at St. Octave, County of Rimouski, and the appointment of her successor. Presented January 22, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*

44*w*. Return to an Order of the House of the 9th April, 1913, for a copy of all charges, correspondence, telegrams and other documents relating to the dismissal of John McDonnell, postmaster at Essex, Inverness County, Nova Scotia. Presented January 22, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

44*x*. Return to an Order of the House of the 31st March, 1913, for a copy of all letters, telegrams and documents in connection with the dismissal of James Bain, from the postmastership of Ninga post office, Ninga, Manitoba. Presented January 22, 1914.—*Mr. Turriff*.....*Not printed.*

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44*y*. Return to an Order of the House of the 9th April, 1913, for a copy of all letters, petitions, telegrams, complaints, reports and other papers and documents in the possession of the Post Office Department, relating to the dismissal of William McKinnon, postmaster at Erinville, Guysborough County, N.S., and the appointment of Daniel Kenny as successor; and if there was an investigation in connection with the dismissal of the said William McKinnon, the names of all witnesses examined, a copy of the evidence and report of the commissioner, and a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*

44*z*. Return to an Order of the House of the 7th May, 1913, for a copy of all correspondence, evidence and reports in connection with the dismissal of J. N. Cloutier, postmaster at St. Benoit Labre, County of Beauce, Quebec. Presented January 22, 1914.—*Mr. Béland.* *Not printed.*

44 (2*a*). Return to an Order of the House of the 12th February, 1913, for a copy of all letters, telegrams, papers and documents relative to the dismissal of Mrs. Weave, postmistress at Coal Creek, Queens County, N.B., and of the appointment of Michael L. Knox. Presented January 22, 1914.—*Mr. McLean (Sunbury)*.....*Not printed.*

44 (2*b*). Return to an Order of the House of the 26th May, 1913, for a copy of all correspondence and documents of any kind whatsoever relating to the dismissal of postmasters in Bonaventure County, by the present administration, not already ordered and brought down. Presented January 22, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

44 (2*c*). Return to an Order of the House of the 28th April, 1913, for a copy of all petitions, complaints, and correspondence containing any charges against Alexander Fraser, postmaster at Fraser's Grant, Antigonish County, N.S., and of all other documents and correspondence on the file in relation thereto. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)* .....*Not printed.*

44 (2*d*). Partial return to an Order of the House of the 10th December, 1912, for a return showing all public officers removed by the present Government in the District of Portneuf, together with the name and duties of each person, the reasons for their dismissal, the nature of the complaints brought against them, also a copy of all correspondence relating thereto and reports of inquiries in cases where such were held. Presented January 22, 1914.—*Mr. Delisle* ..... *Not printed.*

44 (2*e*). Return to an Order of the House of the 15th January, 1913, for a return showing a list of the postmasters dismissed or removed by the present Government in the County of Two Mountains, the names of such persons, the reason for their dismissal, the nature of the complaints brought aginst them, and a copy of all correspondence and petitions relating thereto, and reports of inquiry in the cases where such have been held; also the names of their successors. Presented January 22, 1914.—*Mr. Ethier*....*Not printed.*

44 (2*f*). Return to an Order of the House of the 15th January, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relative to the dismissal of Thomas Chalmer McLean, postmaster at Ivera, Middle River, Riding of North Cape Breton and Victoria, N.S., and of the evidence taken and reports of investigation held by H. P. Duchemin in regard to the same, and a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. McKenzie*.....*Not printed.*

44 (2*g*). Return to an Order of the House of the 29th January, 1913, for a copy of all letters, telegrams, reports and other documents relative to the dismissal of C. P. Blanchard, postmaster at Truro, Nova Scotia, and the appointment of his successor. Presented January 22, 1914.—*Mr. Macdonald* .....*Not printed.*

44 (2*h*). Return to an Order of the House of the 29th January, 1913, for a copy of all papers, documents, evidence, reports, letters, correspondence, &c., relating to the dismissal of Samuel Atwood, Atwood's Brook, Shelburne County, N.S. Presented January 22, 1914.—*Mr. Law* .....*Not printed.*

44 (2*i*). Return to an Order of the House of the 3rd February, 1913, for a return showing the names of the postmasters in the County of Berthier dismissed since the 21st September, 1911; their respective parishes, the date of their dismissals and the reason alleged; if an inquiry was held in each case; on whose recommendation were these dismissals made; the names of those appointed as their successors and on whose recommendation were they appointed. Presented January 22, 1914.—*Mr. Béland*.....*Not printed.*

44 (2*j*). Return to an Order of the House of the 3rd March, 1913, for a copy of all complaints, accusations, correspondence, petitions and telegrams, respecting the dismissal of Wilfrid Pellemarre, postmaster at Hervey Junction, County of Portneuf, and of all documents respecting the appointment of his successor, such as petitions, letters of recommendation, &c., and also of the evidence and reports made after the inquiry held by the inquiring commissioner; together with a detailed statement of the expenses caused by this inquiry. Presented January 22, 1914.—*Mr. Delisle*.....*Not printed.*

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44 (2*k*). Return to an Order of the House of the 10th February, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Post Office Department, or any department of the Government, relating to the dismissal of Rufus D. Carrigan, postmaster at Sand Point, Guysborough County, N.S., and if there was an investigation, the names of all witnesses examined, and a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. Sinclair* ..... *Not printed.*

44 (2*l*). Return to an Order of the House of the 15th January, 1913, for a copy of all charges, correspondence, letters, telegrams and other documents relative to the dismissal of Daniel Dunlop, postmaster at New Campbellton, Riding of North Cape Breton and Victoria, N.S., and of the evidence taken and reports of the investigation held by H .P. Duchemin in regard to the same, and a detailed statement of the expenses of such investigation. Presented January 22, 1914.—*Mr. McKenzie* ..... *Not printed.*

44 (2*m*). Return to an Order of the House of the 9th April, 1913, for a copy of all charges, correspondence, telegrams and other documents relating to the dismissal of Duncan Cameron, postmaster at Craigmore, Inverness County, Nova Scotia. Presented January 22, 1914. —*Mr. Chisholm (Inverness)* ..... *Not printed.*

44 (2*n*). Return to an Order of the House of the 29th January, 1913, for a copy of all letters, telegrams, reports, charges and other documents relating to the dismissal of Angus Cameron, late postmaster at Fairlight, Sask., and of the evidence taken at the investigation held by Mr. Dorsett. Presented January 22, 1914 —*Mr. Turriff* .... *Not printed.*

44 (2*o*). Return to an Order of the House of the 15th January 1913, for a copy of all documents, correspondence, petitions and telegrams respecting the dismissal of M. Sauriol, postmaster of St. Janvier, County of Terrebonne, and the appointment of his successor. Presented January 22, 1914.—*Mr. Ethier* ..... *Not printed.*

44 (2*p*.) Return to an Order of the House of the 2nd June, 1913, for a copy of all petitions, letters, telegrams and resolutions in connection with the changes made in the names of the post offices at Letches Creek Crossing and Letches Creek, North Cape Breton, N.S., the dismissal of Donald Johnston, the former postmaster at Letches Creek, and the appointment of his successor. Presented January 22, 1914.—*Mr. McKenzie.* *Not printed.*

44 (2*q*). Return to an Order of the House of the 27th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence and recommendations in any way relating to the dismissal of James McLees, postmaster at Bishop Mills, County of Grenville, Province of Ontario, and the appointment of his successor. Presented January 22, 1914. —*Mr. Proulx* ..... *Not printed.*

44 (2*r*). Return to an Order of the House of the 9th April, 1913, for a copy of all charges, correspondence, telegrams and other documents relating to the dismissal of Mrs. Sarah C. Rankin, postmistress at S. W. Ridge Mahou, Inverness County, Nova Scotia. Presented January 22, 1914.—*Mr. Chisholm (Inverness)* ..... *Not printed.*

44 (2*s*). Partial Return to an Order of the House of the 19th March, 1913, for a Return showing in detail the number of dismissals from the public service during the period from June 23, 1896, to September 21, 1911, in the County of Cumberland, Nova Scotia, in connection with any department of the public service; together with the names of the dismissed officials or employees, their ages at the time of entering the public service, the length of their period of service with dates, the amount of their remuneration, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communication with respect to each such case of dismissal, and of all minutes of evidence on investigation, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the government; also the names of all persons appointed to fill vacancies caused by such dismissals, their ages at the date of appointment, the amount of their remuneration, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with said dismissals and investigations or removal from office. Presented January 22, 1914.—*Mr. Rhodes* ..... *Not printed.*

44 (2*t*). Partial Return to an Order of the House of the 29th April, 1913, for a Return showing all employees of the Dominion dismissed in the County of Three Rivers and St. Maurice since October 15, 1911, to date, the date of dismissal, the employment of each man, the salary he was receiving at the time of his dismissal, the reason for dismissal, whether there has been an investigation or not, with the names and places of residence of the men appointed to replace them. Presented January 22, 1914. —*Mr. Bureau.* *Not printed.*

44 (2*u*). Partial Return to an Order of the House of the 10th December, 1912, for a return showing the number of dismissals from public offices by the present Government to this date in the constituency of Regina, together with the names of the dismissed officials, the reasons for their dismissals, the complaints against such officials, and a copy of all correspondence relating thereto and reports of inquiries in cases where such have been held in respect of the same. Presented January 22, 1914. —*Mr. Martin (Regina).* *Not printed.*

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44 (2*v*). Return to an Order of the House of the 10th December, 1912, for a return showing all the public officers dismissed by the present Government in the electoral district of Kamouraska, with the names and duties of such persons respectively, the reason for their dismissal, the nature of the complaints brought against them, also of all correspondence relating thereto and reports of inquiries in cases where such have been held. Presented January 22, 1914.—*Mr. Lapointe* (*Kamouraska*).....*Not printed.*

44 (2*w*). Partial Return to an Order of the House of the 10th February, 1913, for a return showing in detail the number of dismissals from public offices by the present Government to this date in the County of Prince, Prince Edward Island, giving the names of the dismissed officials, the reasons for their dismissal, the complaints against such officials and a copy of all the correspondence with respect to the same and of all notes of evidence and reports of investigations where such were held; also the names of all parties appointed to fill the vacancies caused by such dismissals and the names of the persons by whom the same have been recommended for appointment. Presented January 22, 1914.—*Mr. Richards*.....*Not printed.*

44 (2*x*). Return to an Order of the House of the 10th December, 1912, for a return showing the detail and number of dismissals from public offices by the present Government to this date in the riding of Strathcona, together with the names of the dismissed occupants, the reasons for their dismissal, the complaints against such officials, and a copy of all correspondence with respect to the same, and of all reports of investigations, where such were held. Presented January 22, 1914.—*Mr. Douglas*.....*Not printed.*

44 (2*y*). Partial Return to an Order of the House of the 10th December, 1912, for a return showing the detail and number of dismissals from public offices by the present Government to this date in the riding of Saltcoats, Sask., together with the names of the dismissed occupants, the reasons for their dismissal, the complaints against such officials, and a copy of all correspondence with respect to the same, and all reports of investigations, in cases where such were held. Presented January 22, 1914.—*Mr. MacNutt.* *Not printed.*

44 (2*z*). Return to an Order of the House of the 28th April, 1913, for a return showing all employees dismissed in the County of Champlain since October 15, 1911, to date, the employment of each man, the salary each was receiving at the time of his dismissal, the reasons for dismissals, whether there has been any investigation or not, with the names and places of residence of the men appointed to replace them. Presented January 22, 1914.—*Mr. Bureau*.....*Not printed.*

44 (3*a*). Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and position of employment, by the present Government since the 11th day of October, 1911, to this date, in the County of Cumberland, Nova Scotia, not including those for which returns have already been ordered, in connection with any of the departments of the public service; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removal from office. Presented January 22, 1914. —*Mr. Kyte*.....*Not printed.*

44 (3*b*). Return to an Order of the House of the 3rd February, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment, by the present Government since the first day of October, 1911, to this date, in the County of Westmorland, New Brunswick, in connection with any of the departments of the public service; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made, save and except the case of George H. Cochrane, Collector of Customs at Moncton (the papers for which have been already moved for); together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of government, or of the Government Railways Managing Board, or of the officials of the Intercolonial and the Prince Edward Island Railway; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respecitvely recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented January 22, 1914.—*Mr. Emmerson*.....*Not printed.*

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44 (3*c*). Partial Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Annapolis, Nova Scotia, in connection with any of the departments of the public service, but not including cases in which orders have already passed together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill vacancies caused by such dismissals ,and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)* ..... *Not printed.*

44 (3*d*). Return to an Order of the House of the 28th April, 1913, for a return showing all employees dismissed in the County of Nicolet since October 15, 1911, to date, the date of dismissal, the employment of each man, the salary he was receiving at the time of his dismissal, the reasons for dismissal whether there has been an investigation or not, with the names and places of residence of the men appointed to replace them. Presented January 22, 1914.—*Mr. Bureau* ..... *Not printed.*

44 (3*e*). Return to an Order of the House of the 29th January, 1913, for a return showing in detail the number of dismissals from public offices by the present Government to this date in the constituency of Victoria, Alberta, together with the names of the dismissed officials, the reason of their dismissal, the complaints against such officials, and a copy of all correspondence with respect to the same and of all notes of evidence and of the reports of investigations where such were held; also the names of all parties appointed to fill the vacancies caused by such dismissals and the names of the persons by whom the same have been recommended for appointment. Presented January 22, 1914.—*Mr. White (Alberta)* ..... *Not printed.*

44 (3*f*). Officials dismissed in the constituency of Shelburne and Queens, N.S.—(Senate). *Not printed.*

44 (3*g*). Postmasters dismissed in the County of Antigonish, N.S.—(*Senate*) ..... *Not printed.*

44 (3*h*). Return to an Order of the House of the 29th January, 1913, for a copy of all charges, correspondence, letters, telegrams, and other documents relating to the dismissal of Dr. Freeman O'Neil, from the office of port physician at Louisburg, Cape Breton South, Nova Scotia, and of the evidence taken and reports of investigation held by H. P. Duchemin in regard to the same. Presented January 26, 1914.—*Mr. Sinclair.* *Not printed.*

44 (3*i*). Partial Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Digby, Nova Scotia, in connection with any of the departments of the public service, but not including cases in which orders have already passed; together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment, together with a detailed statement of all accounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. And also—Supplementary return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Digby, Nova Scotia, in connection with any of the departments of the public service, but not including cases in which orders have already passed; together with the names of the dismissed officials or employees, the reasons for their respective dismissals the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all accounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented January 22, 1914 —*Mr. Sinclair* ..... *Not printed.*

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44 (3*j*). Partial Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the constituency of Queen's, Shelburne, Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already been passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held and of all reports relating to such dismissals now in the possession of any of the departments of the Government, also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations of removals from office. Presented January 27, 1914.—*Mr. Law*.....*Not printed.*

44 (3*k*). Partial Return to an Order of the House of the 19th March, 1913, for a list of public officers employed in the city of Quebec, in the Departments of Inland Revenue, Railways and Canals, the Transcontinental Railway, Customs, Immigration, Marine and Fisheries, Public Works and Militia, the names and duties of such persons, the reason for their dismissal, the nature of the complaints brought against them, also a copy of all correspondence relating thereto, and of reports of inquiry in the cases where such inquiries were held. Presented January 26, 1914.—*Mr. Lachance*.....*Not printed.*

44 (3*l*). Return to an Order of the House of the 29th January, 1913, for a return showing all the public officers removed by the present Government in the District of L'Assomption, together with the names and duties of such persons, the reasons for their dismissal, the nature of the complaints brought against them; also a copy of all correspondence relating thereto and reports of inquiries in cases where such were held, with the names of the successors of the dismissed officers. Presented January 26, 1914.—*Mr. Seguin.* *Not printed.*

44 (3*m*). Further Supplementary Return to an Order of the House of the 7th February, 1912, for a return showing for each department of the Government the names, post office addresses, offices, employment, and salaries of all persons employed either in the inside or outside service thereof, and of such persons not in the Civil Service, employed by the Government in any department, on the tenth day of October, 1911, who have been removed from office or employment by dismissal; specifying in each case the manner of and grounds of such dismissals and the length of notice given to the persons removed, and also indicating in each case whether an inquiry was or was not held prior to such dismissal. Presented January 26, 1914.—*Mr. Kyte*.....*Not printed.*

44 (3*n*). Supplementary Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Digby, Nova Scotia, in connection with any of the departments of the public service, but not including cases in which orders have already passed; togeaher with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all accounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented January 28, 1914. —*Mr. Sinclair* .....*Not printed.*

44 (3*o*). Return to an Order of the House of the 26th May, 1913, for a copy of all correspondence, telegrams, inquiries and reports respecting the dismissal of Philias Hable, lightkeeper at St. Louis de Lotbinière, County of Lotbinière, Quebec. Presented February 4, 1914.—*Mr. Fortier*.....*Not printed.*

44 (3*p*). Return to an Order of the House of the 19th May, 1913, for a copy of all correspondence, complaints, petitions and reports connected with the dismissal of Fishery Overseer Mgneault at Seven Islands, and the appointment in his place of Elzear Levesque. Presented February 10, 1914.—*Mr. Béland*.....*Not printed.*

44 (3*q*). Return to an Order of the House of the 28th April, 1913, for a return showing all employees dismissed in the County of Maskinonge, since October 15, 1911, to date, the date of dismissal, the employment of each man, the salary he was receiving at the time of his dismissal, the reasons for dismissal, whether there has been investigation or not, and the names and places of residence of the men appointed to replace them. Presented February 10, 1914.—*Mr. Bureau* .....*Not printed.*

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44 (3r). Partial Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of King's, Province of Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government, also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid, or to be paid, by any department in connection with the said dismissals and investigations or removals from office. Presented February 10, 1914.—*Mr. McKenzie*.....*Not printed.*

44 (3s). Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public office and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Colchester, Nova Scotia, in connection with any of the departments of the public service; together with the names of the dismissed officials or employees, the reasons for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented February 10, 1914.—*Mr. Macdonald*.....*Not printed.*

44 (3t). Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Hants, Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already passed; together with the name of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government; also of the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented February 10, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

44 (3u). Return to an Order of the House of the 10th December, 1912, for a copy of all correspondence, documents, recommendations, and reports concerning the dismissal of Miss Eugenie Dorion, an employee in the office of the post office inspector at Quebec; the reasons for her dismissal, the nature of the complaints brought against her, if any, the names of the persons who brought these complaints, also a copy of all correspnodence relating thereto, and the report of inquriy, if there was one held. Presented February 20, 1914.—*Mr. Wilson (Laval)*.....*Not printed.*

44 (3v). Return to Order of the House of the 2nd February, 1914, for a copy of all charges, correspondence, letters, telegrams and other documents in the possession of the Post Office Department, relating to the dismissal of James R. Laing, postmaster at Liscombe, N.S., and of the facts taken, and report of investigation in regard to the same, if any, a detailed statement of the expenses of such investigation, together with a copy of all recommendations, letters, telegrams, and other papers relating to the appointment of his successor. Presented February 23, 1914.—*Mr. Sinclair*.....*Not printed.*

44 (3w). Return to an Order of the House of the 5th June, 1913, for a copy of all correspondence, papers, &c., in connection with the dismissal of Mr. A. L. Desâve, officer in charge of the fishery hatchery at Magog, Quebec, and the appointment of Mr. L. A. Audet to the said position. Presented February 23, 1914.—*Sir W. Laurier*.....*Not printed.*

44 (3x). Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, telegrams and other documents relating to the removal of Jas. T. Richardson as sub-Collector of Customs at Humboldt, Saskatchewan, and the appointment of a successor. Presented February 23, 1914.—*Mr. Neely*.....*Not printed.*

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44 (3*y*). Supplementary Return to an Order of the House of the 10th December, 1912, for a return showing the number of dismissals from public offices by the present Government to this date in the constituency of Regina, together with the names of the dismissed officials, the reasons for their dismissals, the complaints against such officials, and a copy of all correspondence with respect to the same, and of all reports of any investigations held in respect of the same. Presented February 24, 1914.—*Mr. Martin (Regina)* ..... *Not printed.*

44 (3*z*). Return to an Order of the House of the 9th February, 1914, for a copy of all papers, documents, correspondence, &c., in connection with the dismissal of Mr. Hicks, of Bridgetown, N.S., from the customs service in 1913. Presented February 24, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

44 (4*a*). Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Customs Department, relating to the dismissal of Ralph Harris, sub-collector of customs at Pelee Island, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented February 26, 1914.—*Mr. Clarke (Essex)* ..... *Not printed.*

44 (4*b*). Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Customs Department, relating to the dismissal of Aylmer Orton, customs officer at Windsor, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented February 26, 1914.—*Mr. Clarke (Essex).* *Not printed.*

44 (4*c*). Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Customs Department, relating to the dismissal of Frederick Forster, sub-collector of customs at Kingsville, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented February 26, 1914.—*Mr. Clarke (Essex)* ..... *Not printed.*

44 (4*d*). Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Interior Department, relating to the dismissal of Andrew Darragh, immigration officer at Windsor, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented March 2, 1914.—*Mr. Clarke (Essex).* *Not printed.*

44 (4*e*). Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Interior Department, relating to the dismissal of John Halstead, immigration officer at Windsor, Ont., and if there was an investigation, the names of all the witnesses, and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented March 2, 1914.—*Mr. Clarke (Essex).* *Not printed.*

44 (4*f*). Return to an Order of the House of the 26th May, 1913, for a copy of all correspondence, telegrams, inquiries, and reports, respecting the dismissal of Napoleon Daigle, lighthouse keeper at Barre à Boulard, Parish of St. Louis de Lotbinière, Quebec. Presented March 2, 1914.—*Mr. Fortier* ..... *Not printed.*

44 (4*g*). Supplementary Return to an Order of the House of the 19th March, 1913, for a return showing in detail the number of dismissals from the public service during the period from June 23, 1896, to September 21, 1911, in the County of Cumberland, Nova Scotia, in connection with any department of the public service; together with the names of the dismissed officials or employees, their ages at the time of entering the public service, the length of their period of service with dates, the amount of their remuneration, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissals, and of all minutes of evidence on investigation, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the government; also the names of all persons appointed to fill vacancies caused by such dismissals, their ages at the date of appointment, the amount of their remuneration, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with said dismissals and investigations or removal from office. Presented March 2, 1914.—*Mr. Rhodes* ..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

44 (4h). Return to an Order of the House of the 16th February, 1914, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Department of the Postmaster General, relating to the dismissal of James H. Smart, postmaster at Kingsville, Ont., and if there was an investigation, the names of all the witnesses and a copy of the evidence; and also of all the papers connected with the appointment of his successor. Presented March 2, 1914.—*Mr. Clarke (Essex)* ..... *Not printed.*

44 (4i). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relating to the dismissal of John A. Roy from the position of postmaster at Maitland, County of Hants. Presented March 2, 1914.—*Mr. Macdonald* ..... *Not printed.*

44 (4j). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relating to the dismissal of Thomas Nelson, from the position of postmaster at Scotch Village, County of Hants. Presented March 2, 1914.—*Mr. Macdonald* ..... *Not printed.*

44 (4k). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relating to the dismissal of Albert McHeffey from the position of postmaster at Shubenacadie, County of Hants. Presented March 2, 1914.—*Mr. Macdonald* ..... *Not printed.*

44 (4l). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relating to the dismissal of C. Stewart McPhee from the position of postmaster at Enfield, County of Hants. Presented March 2, 1914.—*Mr. Macdonald* ..... *Not printed.*

44 (4m). Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the first day of February, 1913, to date, in the County of Westmorland, New Brunswick, in connection with any of the departments of the public service, except the Post Office Department; together with the names of the dismissed officials or employees, the reasons for their respective dismissal, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the government, or of the Government Railway Managing Board, or of the officials of the Intercolonial and the Prince Edward Island Railways; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented March 3, 1914.—*Mr. Emmerson* ..... *Not printed.*

44 (4n). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence and recommendations in any way relating to the dismissal of D. Dishaw, employee of the Marine shipyard at Prescott, Ontario. Presented March 3, 1914.—*Mr. Turriff* ..... *Not printed.*

44 (4o). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters and documents of every kind relative to the dismissal of A. Michael Russell from the position of caretaker of the drill hall at Windsor, County of Hants. Presented March 3, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

44 (4p). Return to an Order of the House of the 2nd February, 1914, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Mr. A. Goyette, postmaster at St. Valerien de Milton, Shefford County, Quebec, and of the evidence taken, and of the reports of investigation held by Dr. W. L. Shurtleff in regard to the same. Presented March 5, 1914.—*Mr. Boivin* ..... *Not printed.*

44 (4q). Return to an Order of the House of the 21st April, 1913, for a copy of the evidence and report in the investigation held by Mr. W. A. E. Flynn, in the case of P. D. Bourdages, keeper of the lighthouse at Bonaventure Point, Quebec, of the charges made against the said Bourdages by Ovide Bourdages, Raymond Bourdages, Pierre Henry, J. A. Mousseau and D. Champoux. Presented March 5, 1914.—*Mr. Marcil (Bonaventure)* ..... *Not printed.*

44 (4r). Return to an Order of the House of the 21st April, 1913, for a copy of the charges made by Messrs. W. S. Montgomery, J. I. Boudreau, N. Bourg, J. A. Mousseau, N. Boudreau, against Louis Bujold, keeper of the lighthouse at Carleton Point, Quebec. Presented March 5, 1914.—*Mr. Marcil (Bonaventure)* ..... *Not printed.*

44 (4s). Return to an Order of the House of the 11th February, 1914, for a return showing reasons for the dismissal of Mr. Shinbine, caretaker of the Immigration Hall at Edmonton, the date of his appointment and of dismissal, and salary at time of dismissal; also the name of caretaker appointed in his place, with date of appointment, salary and qualifications. Presented March 6, 1914.—*Mr. Oliver* ..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

44 (4*t*). Return to an Order of the House of the 11th February, 1914, for a return showing the reasons for the dismissal of Mr. Webster, immigration agent at Edmonton; the date of his appointment and of dismissal, and salary at time of dismissal; also the name of the agent appointed in his place, with date of appointment, salary and qualifications? Presented March 6, 1914.—*Mr. Oliver*.....*Not printed.*

44 (4*u*). Return to an Order of the House of the 11th February, 1914, for a return showing reasons for the dismissal of Jacob Mohr, interpreter for the immigration agency at Edmonton; the date of his appointment and of dismissal, and salary at time of dismissal; also the name of the interpreter appointed in his place with date of appointment, salary and qualifications. Presented March 6, 1914.—*Mr. Oliver*.....*Not printed.*

44 (4*v*). Return to an Order of the Houe of the 11th February, 1914, for a return showing reasons for the dismissal of Mr. P. Tomkins, Dominion Lands Agent at Grouard, the date of his appointment and of dismissal, and salary at time of dismissal; also the name of agent appointed in his place, with date of appointment and salary. Presented March 6, 1914.—*Mr. Oliver*.....*Not printed.*

44 (4*w*). Return to an Order of the House of the 2nd February, 1914, for a copy of all documents bearing upon dismissals and appointments of officials of the Inland Revenue Department in Bonaventure County since January 1, 1913, to date; together with a statement showing the salaries, emoluments and amounts paid to the new appointees since appointment, compared with amounts paid officials for corresponding periods in 1911 and 1912. Presented March 6, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

44 (4*x*). Return to an Order of the House of the 2nd February, 1914, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Mr. Arthur Dupuis, postmaster at Pontbriand, County of Megantic, Quebec, and of the evidence taken and of the reports of investigation held by Dr. W. L. Shurtleff in regard to the same. Presented March 6, 1914...*Mr. Pacaud*.....*Not printed.*

44 (4*y*). Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, letters, telegrams, petitions and other documents relating to the dismissal of Jos. Serguis Archambault, as postmaster of the town of Terrebonne, and to the appointment of George Beausoldeil, as his successor. Presented March 6, 1914.
Mr. Seguin.....*Not printed.*

44 (4*z*). Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, letters, telegrams, reports and all other papers relating to the dismissal of Martin Lanigan, postmaster at Sexton, County of Kent, New Brunswick, and of the minutes of evidence of any investigation or inquiry held relating to the said dismissal, and of all and any charges and recommendations connected therewith; also a copy of all letters written to the Postmaster General or to any official of the Post Office Department, by F. J. Robidoux, M.P., or by any other person relating to the said dismissal. Presented March 6, 1914.—*Mr. Emmerson*.....*Not printed.*

44 (5*a*). Return to an Order of the House of the 2nd February, 1914, for a copy of all documents, letters, correspondence and petitions asking for the dismissal of Mr. Felix Raymond, postmaster at Ste. Scholastique Village, County of Two Mountains, together with everything in connection with such dismissal. Presented March 6, 1914.—*Mr. Ethier.*
Not printed.

44 (5*b*). Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the sub-lands agency in Gravelburg, Saskatchewan. Presented March 10, 1914.—*Mr. Knowles*.....*Not printed.*

44 (5*c*). Further Supplementary Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th of October, 1911, to this date, in the County of King's, Province of Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the Government, also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid, or to be paid, by any department in connection with the said dismissals and investigations or removals from office. Presented March 10, 1914.—*Mr. McKenzie*.....*Not printed.*

44 (5*d*). Return to an Order of the House of the 11th February, 1914, for a copy of all papers, telegrams, correspondence and petitions in any way referring to the dismissal of the postmaster at Ainslie Glen, Inverness County, and the appointment of Neil McKinnon to said office. Presented March 12, 1914.—*Mr. Chisholm (Inverness)*.
Not printed.

CONTENTS OF VOLUME 28—*Continued.*

44 (5*e*). Return to an Order of the House of the 9th February, 1914, for a copy of all papers, documents, correspondence, letters, &c., since October 1, 1911, relating to the appointment of a postmaster at Upper Ohio, Shelburne County, N.S. Presented March 12, 1914. *Mr. Maclean (Halifax)*.....*Not printed.*

44 (5*f*). Return to an Order of the House of the 9th February, 1914, for a copy of all papers, documents, correspondence, letters and telegrams, relating to the dismissal of Jos. H. Lefebvre, postmaster at Howick Station, County of Chateauguay, and the appointment of his successor. Presented March 12, 1914.—*Mr. Robb*.....*Not printed*

44 (5*g*). Return to an Order of the House of the 11th February, 1914, for a copy of all correspondence, letters, telegrams, petitions and other documents in any way connected with the dismissal of the postmaster at Alexander, Inverness County, and the appointment of a successor. Presented March 12, 1914.—*Mr. Chisholm (Inverness)*.
Not printed.

44 (5*h*). Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, letters, telegrams and documents of all kinds in possession of the Government or any department thereof, in any way relating to the employment of and dismissal from the Geological Survey of Canada of N. H. McLeod, North East Margaree, Inverness County, N.S. Presented March 12, 1914.—*Mr. Chisholm (Inverness)*.
Not printed.

44 (5*i*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence and recommendations in any way relating to the dismissal of M. Barry, from the service of the Marine Department at Prescott, Ontario. Presented March 17, 1914.—*Mr. Lemieux*.....*Not printed.*

44 (5*j*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence and recommendations in any way relating to the dismissal of W. Granton, from the service of the Marine Department at Prescott, Ontario. Presented March 17, 1914.—*Mr. Thomson (Qu'Appelle)*.
Not printed.

44 (5*k*). Return to an Order of the House of the 9th February, 1914, for a copy of all letters, and telegrams in connection with the dismissal of the postmaster at Fletwode, Saskatchewan, and the changing of the location of the said post office. Presented March 17, 1914.—*Mr. Turriff*.....*Not printed.*

44 (5*l*). Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the number of dismissals or removals from office from 1st February, 1913, of postmasters in the County of Westmorland, New Brunswick, together with the names of the dismissed postmasters, or postmistresses, the reason of their dismissal, and a copy of the charges or complaints against such officials respectively, and of all correspondence with respect to the same; and of all correspondence, recommendations, petitions, protests and other documents, and of all notes of evidence and of the reports of investigations, where such were held, relating thereto, or to the appointment of successors to fill such offices respectively; and also the names of all persons appointed to fill the vacancies caused by such dismissals and of the persons by whom the same respectively were recommended for appointment. Presented March 17, 1914.—*Mr. Emmerson*.
Not printed.

44 (5*m*). Return to an Order of the House of the 16th February, 1914, for a return showing the name of the postmaster of the Parish of St. Henri de Lauzon, County of Lévis, who it is said, was dismissed from office since September, 1911, the reasons for such dismissal, the nature of the complaints made against him, the names of the parties who made those complaints, together with a copy of all correspondence and telegrams relating thereto, the name of the inquiring commissioner, and report of investigation, if any, and of all evidence taken at the investigation, the names of those who recommended the successor, names of the parties by whom the Government was represented at such investigation, with a detailed statement of all the accounts paid or to be paid by any department in connection with the aforesaid dismissal and investigation, the names of the parties who received any money or filed their accounts in connection with said investigation, and the amount awarded to or claimed by each of them. Presented March 17, 1914.—*Mr. Bourassa*.....*Not printed.*

44 (5*n*). Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, petitions, telegrams, evidence, reports, papers and documents, in the possession of the Post Office Department, or any other department, relating to the dismissal of Geo. Skates, postmaster at Appin, Ontario; and if there was an investigation, the name of the investigator and witnesses, a copy of the evidence and of letters, papers, petitions, recommendations and other documents connected with the appointment of Mr. Skates' successor. Presented March 17, 1914.—*Mr. Ross*.....*Not printed.*

44 (5*o*). Return to an Order of the House of the 9th March, 1914, for a copy of all charges, correspondence, letters, telegrams and other documents relating to the dismissal of Geo. J. Ryan and Charles Hamlin from the Canadian customs service at Newport, Vermont, and of the appointment of Charles A. Boright and Frank S. Baker to the said positions. Presented March 20, 1914.—*Mr. Boivin*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

44 (5*p*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations, in any way relating to the dismissal of J. Shaver, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Law*.....*Not printed.*

44 (5*q*). R turn to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of R. Lunay, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Carroll*.....*Not printed.*

44 (5*r*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Slattery, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Béland*.....*Not printed.*

44 (5*s*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Walsh, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

44 (5*t*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of W. Gerts, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Wilson (Laval)*.....*Not printed.*

44 (5*u*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of D. Boivard, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Kyte*.....*Not printed.*

44 (5*v*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of G. Scott, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Nesbitt*.....*Not printed.*

44 (5*w*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Offspring, employee of the Marine shipyard at Prescott Ontario. Presented March 20, 1914.—*Mr. Warnock*.....*Not printed.*

44 (5*x*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Hayes, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Turriff*.....*Not printed.*

44 (5*y*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of P. Belanger, from the service of the Marine Department at Prescott, Ontario. Presented March 20, 1914.—*Mr. Proulx*.....*Not printed.*

44 (5*z*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of L. Place, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Pacaud*.....*Not printed.*

44 (6*a*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of C. Kavanagh, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Carvell*.....*Not printed.*

44 (6*b*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Roche, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Sinclair*.....*Not printed.*

44 (6*c*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. McInnis, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. McCoig*.....*Not printed.*

44 (6*d*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of E. Scott, employee of the Marine shipyard at Prescott, Ontario. Presented March 29, 1914.—*Mr. Demers*.....*Not printed.*

44 (6*e*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of C. Wright, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Clark (Red Deer)*.....*Not printed.*

44 (6*f*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of L. Lalonde, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Bureau*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

44 (6*g*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of H. Birks, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Charlton*.....*Not printed.*

44 (6*h*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of W. Jarvis, employee of the Marine shipyard at Prescott, Ontario. Presented March 20, 1914.—*Mr. Gauvreau*.....*Not printed.*

44 (6*i*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. McDermott, employee of the Marine shipyard at Prescott, Ontario. Presented March 23, 1914.—*Mr. Devlin*.....*Not printed.*

44 (6*j*). Return to an Order of the House of the 27th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of George L. Brown, officer in charge of the Dominion lighthouse, Prescott Depot, Ontario, and the appointment of his successor. Presented March 23, 1914.—*Mr. Proulx*.....*Not printed.*

44 (6*k*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. Lane, employee of the Marine shipyard at Prescott, Ontario. Presented March 23, 1914.—*Mr. MacNutt*.....*Not printed.*

44 (6*l*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of D. Perrin, employee of the Marine shipyard at Prescott, Ontario. Presented March 23, 1914.—*Mr. Lemieux*.....*Not printed.*

44 (6*m*). Return to an Order of the House of the 15th January, 1913, for a copy of all letters, documents, telegrams, reports, correspondence, and recommendations in any way relating to the dismissal of J. A. Mundle, employee of the Marine shipyard at Prescott, Ontario. Presented March 23, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

44 (6*n*). Return to an Order of the House of the 16th February, 1914, for a return showing the name of the postmaster of the Parish of St. Lambert, County of Lévis, who, it is stated, was dismissed from office since September, 1911, the reasons for such dismissal, the nature of the complaints made against him, the names of the parties who made those complaints, together with a copy of all correspondence and telegrams relating thereto, the name of the inquiring commissioner, and report of investigation, if any, and of all evidence taken at the investigation, the names of those who recommended the successor, names of the parties by whom the Government was represented at such investigation, with a detailed statement of all the accounts paid or to be paid by any department in connection with the aforesaid dismissal and investigation, the names of the parties who received any money or filed their accounts in connection with said investigation and the amount awarded to or claimed by each of them. Presented March 23, 1914.—*Mr. Bourassa*.....*Not printed.*

44 (6*o*). Return to an Order of the House of the 2nd February, 1914, for a return showing the changes in postmasterships in Bonaventure County from January 1, 1913, to date, with a list of dismissals, and reasons therefor, and of new appointments, also a copy of all reports, correspondence, petitions and documents generally bearing on this subject; together with a list of post office contracts cancelled in said constituency, with reasons therefor, if any, and of new contracts awarded, with the old rate and the new and whether tenders were called for, in each case, and whether contracts were awarded to lowest tenderer or not. Presented March 23, 1914.—*Mr. Marcil (Bonaventure)*. *Not printed.*

44 (6*p*). Return to an Order of the House of the 2nd February, 1914, for a return of all reports, memorials, correspondence and documents generally, bearing on the dismissal of customs officials in Bonaventure county from January 1, 1913, to date, together with a statement of salaries paid to old and new officials, and a copy of recommendations on which new officials were appointed, if any. Presented March 25, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

44 (6*q*). Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the number of dismissals from office since October 1, 1911, not already brought down, of postmasters in the County of Albert, New Brunswick, together with the names of the dismissed postmasters, the reason of their dismissal, and a copy of the charges or complaints against such officials respectively, also a copy of all correspondence recommendations, petitions, protests and other documents, and of all notes of evidence and of the reports of investigations, where such were held with respect to the same or relating thereto, or to the appointment of successors to fill such offices respectively. And also the names of all persons appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same were respectively recommended for appointment. Presented March 25, 1914.—*Mr. Emmerson*.....*Not printed.*

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44 (6*r*). Supplementary Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the constituency of Queen's, Shelburne, Nova Scotia, in connection with any of the departments of the public service, not including cases in which orders have already been passed; together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held and of all reports relating to such dismissals now in the possession of any of the departments of the Government, also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same may have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented March 26, 1914.—*Mr. Law*.....*Not printed.*

44 (6*s*). Supplementary Return to an Order of the House of the 10th December, 1912, for a return showing all the public officers dismissed by the present Government in the electoral district of Kamouraska, with the names and duties of such persons respectively, the reason for their dismissal, the nature of the complaints brought against them, also of all correspondence relating thereto and reports of inquiries in cases where such have been held. Presented March 26, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*

44 (6*t*). Return to an Order of the House of the 16th February, 1914, for a return showing the name of the postmaster of the Parish of Notre Dame de Charny, County of Lévis, who, it is stated, was dismissed from office since September, 1911, the reasons for such dismissal, the nature of the complaints made against him, the names of the parties who made those complaints, together with a copy of all correspondence and telegrams relating thereto, the name of the inquiring commissioner, and report of investigation, if any, and of all evidence taken at the investigation, the names of those who recommended the successor, names of the parties by whom the Government was represented at such investigation, with a detailed statement of all the accounts paid or to be paid by any department in connection with the aforesaid dismissal and investigation, the names of the parties who received any money or filed their accounts in connection with said investigation, and the amount awarded to or claimed by each of them. Presented March 31, 1914.—*Mr. Bourassa* .....*Not printed.*

44 (6*u*). Return to an Order of the House of the 16th March, 1914, for a copy of all telegrams, letters and correspondence in connection with the dismissal of Charles S. Melanson, postmaster of Corberrie, Digby County, N.S. Presented April 1, 1914.—*Mr. Law* . *Not printed.*

44 (6*v*). Return to an Order of the House of the 11th February, 1914, for a return showing reasons for the dismissal of Gordon McDonald, homestead inspector in the Grouard Land Agency, the date of his appointment and of dismissal, and salary at time of dismissal; also the names of inspector appointed in his place, with date of appointment and salary. Presented April 2, 1914.—*Mr. Oliver*.....*Not printed.*

44 (6*w*). Return to an Address to His Royal Highness the Governor General of the 17th February, 1913, for a copy of all letters, papers and documents relating to the appointment of W. F. Slack as clerk of works in the Department of Public Works at Ottawa; a copy of the charges against the said W. F. Slack, which were investigated by Honourable F. D. Monk, and of all the letters suspending and re-instating the said W. F. Slack; of the employees memorial, dated May 11, 1912, and addressed to Honourable F. D. Monk; praying for the retention in office of the said W. F. Slack; a copy of the charges investigated by Commissioner R. V. Sinclair, of the evidence taken and the reports made by the said commissioner; and also of all correspondence, requests, recommendations and orders in council relating to the dismissal of the said W. F. Slack. Presented April 2, 1914.—*Mr. Murphy* .....*Not printed.*

44 (6*x*). Return to an Order of the House of the 28th April, 1913, for a copy of all correspondence, memoranda, reports, telegrams, and of all documents whatsoever, in connection with and having relation to the dismissal of William Brunelle, lighthouse keeper at Pointe à Citrouille, County of Champlain, Province of Quebec. Presented April 2, 1914. —*Mr. Bureau* .....*Not printed.*

44 (6*y*). Return to an Order of the House of the 23rd March, 1914, for a copy of all documents, correspondence, petitions, recommendations, &c., in connection with the dismissal of Arthur Levesque, light keeper at Grosse Isle, Kamouraska, and with the appointment of his successor? Presented April 7, 1911.—*Mr. Lapointe (Kamouraska)*..*Not printed.*

44 (6*z*). Return to an Order of the House of the 28th April, 1913, for a copy of all correspondence, memoranda, reports, telegrams and all other documents whatsoever having reference to the dismissal of L. Philippe Carignan, lighthouse keeper at Champlain, County of Champlain. Presented April 2, 1914.—*Mr. Bureau*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

44 (7*a*). Return to an Order of the House of the 23rd March, 1914, for a copy of all documents, petitions, correspondence, recommendations, investigations, &c., in connection with the dismissal of Dominique Levesque, lightkeeper at Rivière Ouelle wharf, County of Kamouraska, and with the appointment of his successor. Presented April 7, 1914.—*Mr. Lapointe (Kamouraska)* ..... *Not printed.*

44 (7*b*). Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the number of dismissals from public offices by the present Government in the electoral district of Shefford from the 1st of October, 1911, not already brought down to the present date; together with the names of the dismissed officers, the reasons for their dismissal, the complaints against such officials, names of the complainants in each case, and the names of their successors in office. Presented April 16, 1914.—*Mr. Boivin.* *Not printed.*

44 (7*c*). Supplementary Return to an Order of the House of the 10th December, 1912, for a return showing all public officers removed by the present Government in the District of Portneuf, together with the names and duties of each person the reasons for their dismissal, the nature of the complaints brought against them, also a copy of all correspondence relating thereto and reports of inquiries in cases where such were held. Presented April 16, 1914.—*Mr. Delisle* ..... *Not printed.*

44 (7*d*). Return to an Order of the House of the 4th February, 1914, for a copy of all correspondence relative to the dismissal of Alex. W. Finlayson, keeper of light on St. Esprit Island, Richmond County, N.S., and to his resignation and the appointment of a successor. Presented April 17, 1914.—*Mr. Kyte* ..... *Not printed.*

44 (7*e*). Return to an Order of the House of the 4th March, 1914, for a copy of all papers, evidence, &c., in connection with the investigation held by the Department of Marine and Fisheries against the light keeper of Cape Cove, County of Gaspé, in 1911. Presented April 17, 1914.—*Mr. Lemieux* ..... *Not printed.*

44 (7*f*). Return to an Order of the House of the 16th February, 1914, for a copy of all telegrams correspondence and documents of all kinds in any way relating to the dismissal or suspension from duty of Dan Cormier, an officer in the life-saving station at Eastern Harbour, Inverness County, Nova Scotia. Presented April 21, 1914.—*Mr. Chisholm (Inverness)* ..... *Not printed.*

44 (7*g*). Return to Order of the House of the 16th February, 1914, for a copy of all documents bearing on the appointment and dismissal of Ben. V. Willett, as light keeper at Point Duthie, Quebec, and of the appointment of James Doldridge as his successor, as well as of those bearing on the contemplated removal of that light to Maria wharf. Presented April 21, 1914.—*Mr. Marcil (Bonaventure)* ..... *Not printed.*

44 (7*h*). Return to an Order of the House of the 12th February, 1914, for a return showing the names of the postmasters who have been dismissed in the County of Lévis since the month of September, 1911; the number of the dismissed postmasters, since the month of September, 1911, who have been appointed in the place of postmasters dismissed under the late administration; and the names of the postmasters who were dismissed under the late administration. Presented April 22, 1914.—*Mr. Bourassa.* ..*Not printed.*

44 (7*i*). Return to an Order of the House of the 2nd March, 1914, for a copy of all correspondence, papers, documents, evidence, reports, telegrams, &c., relating to the dismissal of John A. L. McLellan, late Light keeper at Fish Island, Prince Edward Island. Presented April 28, 1914.—*Mr. Hughes (Kings, P.E.I.)* ..... *Not printed.*

44 (7*j*). Return to an Order of the House of the 6th April, 1914, for a copy of all documents bearing on the dismissal of Thomas Le Blanc, as postmaster of Allard, Bonaventure County, and the appointment of his successor. Presented April 30, 1914.—*Mr. Marcil (Bonaventure)* ..... *Not printed.*

44 (7*k*). Return to an Order of the House of the 21st April, 1913, for a copy of all letters, telegrams, petitions, complaints, evidence, reports and other documents relating to the dismissal of William E. Ehler, Lightkeeper, Queensport, N.S., also a detailed statement of the expenses connected with the investigation, distinguishing the allowance paid the commissioner from travelling expenses and witness fees; and of all papers connected with the appointment of Mr. Ehler's successor. Presented May 5, 1914.—*Mr. Sinclair.* *Not printed.*

44 (7*l*). Return to an Order of the House of the 2nd March, 1914, for a copy of all letters, petitions, telegrams, evidence, reports, papers and documents in the possession of the Post Office Department, or any other Department, relating to the dismissal of Samuel Dickson, postmaster at Seaforth, Ontario, and if there was an investigation, the names of the investigator and witnesses, with a copy of the evidence and of all letters, papers, petitions, recommendations, or other documents connected with the appointment of Mr. Dickson's successor. Presented May 8, 1914.—*Mr. Ross* ..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

44 (7*m*). Return to an Order of the House of the 6th April, 1914, for a copy of all petitions, letters, complaints and other documents relating to the dismissal of Charles McPherson, postmaster at North Riverside, County of Guysborough, N.S., and of all recommendations and correspondence relating to the appointment of his successor; also a copy of all evidence and of the report of the investigation, if any, and a statement of the expenses of said investigation. Presented May 8, 1914.—*Mr. Sinclair*.....*Not printed.*

44 (7*n*). Return to an Order of the House of the 9th March, 1914, for a copy of all letters, telegrams, petitions, notes of evidence, charges, if any, and other papers and documents relating to the dismissal of Christian L. Ehler, postmaster at Queensport, N.S., and of all correspondence, petitions and other papers and documents relating to the appointment of his successor, with a detailed statement of the expenses of the said investigation, if any. Presented May 11, 1914.—*Mr. Sinclair*.....*Not printed.*

44 (7*o*). Return to an Order of the House of the 12th March, 1914, for a return showing:—

1. Whether Christian L. Ehler, postmaster at Queensport, N.S., has been dismissed; and if so, when?
2. Whether the charges against this postmaster were in writing, and by whom the said charges were signed?
3. What the charges were?
4. Who conducted the investigation, if any?
5. Whether the investigation took place after the dismissal or before?
6. Whether the commissioner recommended the dismissal of this postmaster?
7. The names of the witnesses examined?
8. The expense of the investigation in detail?
9. If the Postmaster General is of the opinion that the evidence taken at the investigation justified this dismissal? Presented May 11, 1914.—*Mr. Sinclair.*

Not printed.

44 (7*p*). Return to an Order of the House of the 19th February, 1913, for a copy of all letters, petitions, telegrams, complaints, findings, reports and other papers in the possession of the Post Office Department, or any Department of the Government, relating to the dismissal or discharge of James White, postmaster at Sidney, British Columbia, and if there was an investigation, the names of the witnesses examined and a detailed statement of the expenses of such investigation; also of all letters, telegrams, recommendations and other papers connected with the appointment of his successor. Presented May 11, 1914.—*Mr. Sinclair*.....*Not printed.*

44 (7*q*). Return to an Order of the House of the 9th March, 1914, for a copy of the petition, recommendations and other correspondence relating to the change in the location of the post office at Mount St. Patrick in South Renfrew, and the dismissal of the postmaster. Presented May 11, 1914.—*Mr. Graham*.....*Not printed.*

44 (7*r*). Return to an Order of the House of the 16th February, 1914, for a copy of all documents bearing on the dismissal of the officer in charge of the Port Daniel West, Quebec, lobster hatchery, Edward Dea, and on the appointment of his successor. Presented May 15, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

44 (7*s*). Return to an Order of the House of the 20th April, 1914, for a copy of all correspondence in connection with the dismissal of A. C. Cameron of Fairlight, Saskatchewan, from his position as mail contractor. Presented May 16, 1914.—*Mr. Turriff.*

Not printed.

44 (7*t*). Return to an Order of the House of the 16th March, 1914, for a copy of all charges, correspondence, letters, petitions, telegrams and other documents relating to the dismissal of Mr. Geo. F. Payne, postmaster at Granby, Shefford County, Quebec, and of the appointment of his successor, Mr. J. L. Dozois, N.P., and also of the transfer of the said office from the one to the other, together with a copy of the evidence taken at all investigations held in connection with the said dismissal, appointment and transfer, and of the reports of said investigations. Presented May 16, 1914.—*Mr. Boivin.*

Not printed.

44 (7*u*). Return to an Order of the House of the 30th March, 1914, for a return showing the names of the postmasters who have been dismissed from the office since 1900, in the County of Portneuf, the number of investigations and the names of those whose cases were investigated. Presented May 16, 1914.—*Mr. Delisle*.....*Not printed.*

44 (7*v*). Return to an Order of the House of the 23rd March, 1914, for a copy of all letters, telegrams, correspondence, complaints and protests on file, reefrring to the dismissal of the late postmaster at Havre Boucher, N.S., and to the appointment of a successor. Presented May 16, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

44 (7*w*). Return to an Order of the House of the 6th April, 1914, for a copy of all documents, investigations, reports and letters, concerning the dismissal of William Campbell, light keeper on the wharf at New Richmond, Quebec, and the appointment of James Robertson as his successor; together with a copy of recommendations and the letters respecting the appointment, if any. Presented May 29, 1914.—*Mr. Marcil (Bonaventure).*

Not printed.

CONTENTS OF VOLUME 28—*Continued.*

44 (7*x*). Supplementary Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the first day of February, 1913, to date, in the County of Westmorland, New Brunswick, in connection with any of the Departments of the Public Service, except the Post Office Department, together with the names of the dismissed officials or employees, the reasons for their respective dismissal, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal and of all minutes of evidence of investigations where any such were held and of all reports relating to such dismissals now in the possession of any of the departments of the Government, or of the Government Railway Managing Board, or of the officials of the Intercolonial and the Prince Edward Island Railways; also the names of all parties appointed to fill the vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented June 2, 1914.—*Mr. Emmerson*.....*Not printed.*

44 (7*y*). Return to an Order of the House of the 14th April, 1913, for a return showing the detail and number of dismissals from public offices in the Department of Marine and Fisheries from December 5, 1912, to this date, in the County of Bonaventure, the names of the dismissed occupants, the reasons for their dismissal, the complaints against such officials, and a copy of all correspondence with respect to the same, and of all reports of investigations, where such were held; as well as a list of the new appointments made by the department, with names, residence, salaries and duties, and a copy of all recommendations of such appointments. Presented June 2, 1914.—*Mr. Marcil (Bonaventure)*. *Not printed.*

44 (7*z*). Return to an Order of the House of the 4th May, 1914, for a copy of all complaints and other documents bearing upon the dismissal of J. R. Dawson as postmaster of Richmond, Quebec, and the appointment of his successor. Presented June 2, 1914.—*Mr. Tobin*.....*Not printed.*

44 (8*a*). Return to an Order of the House of the 4th May, 1914, for a copy of all correspondence exchanged by and with the Department of Inland Revenue and the late J. G. Mousseau and A. M. Coldwell, New Carlisle, Quebec, and David Champoux Campbellton, N.B., or Restigouche, Quebec, in connection with the dismissal of Arthur B. Caldwell, Assistant Inspector of Weights and Measures, District of Quebec. Presented June 8, 1914.—*Mr. Marcil*.....*Not printed.*

44 (8*b*). Supplementary Return to an Order of the House of the 3rd March, 1913, for a return showing in detail the number of dismissals from public offices and positions of employment by the present Government since the 11th day of October, 1911, to this date, in the County of Annapolis, Nova Scotia, in connection with any of the departments of the public service, but not including cases in which orders have already passed together with the names of the dismissed officials or employees, the reason for their respective dismissals, the complaints or charges against them, and by whom made; together with a copy of all correspondence, letters, telegrams and other communications with respect to each such case of dismissal, and of all minutes of evidence of investigations, where any such were held, and of all reports relating to such dismissals now in the possession of any of the departments of the government; also the names of all parties appointed to fill vacancies caused by such dismissals, and the names of the persons by whom the same have been respectively recommended for appointment; together with a detailed statement of all amounts and expenses paid by any department in connection with the said dismissals and investigations or removals from office. Presented June 8, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

44 (8*c*). Partial Return to an Order of the House of the 18th February, 1914, for a copy of all charges, complaints, memorials, correspondence and telegrams, not already produced, relating to officials in any department of the Government since October 10, 1911, the number of officials dismissed, reports of investigations held in respect of such charges, items of expenditure and cost of each investigation, the names of persons appointed to office in the place of dismissed officials, and of all recommendations received in behalf of persons so appointed in the Province of Prince Edward Island. Presented June 12, 1914.—*Mr. Hughes (Kings, P.E.I.)*.....*Not printed.*

44 (8*d*). Return to an Order of the House of the 1st June, 1914, for a copy of all charges and complaints, letters, telegrams and correspondence respecting the dismissal of Captain Jeremiah Decoste, mate and craneman, employed on dredge *No. 6* under Captain Dan Gillis during the season of 1912, and of all representations made and correspondence had with the Department of Public Works, or any officer thereof regarding his re-instatement. Presented June 12, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

45. Return to an Order of the House of the 12th May, 1913, for a copy of all communications made by the Canadian Forestry Association to the Government between March 31, 1912, and March 31, 1913, with the replies made thereto. Presented January 19, 1914.—*Mr. Oliver*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

46. Return to an Order of the House of the 16th January, 1913, for a return showing the number of bushels of grain and sacks or barrels of flour which were shipped from Fort William and Port Arthur by vessel during 1912, and the different kinds of grain respectively; to what points were the same shipped in Canada and the United States giving quantities and kinds respectively, and at what points in Canada was grain or flour received by vessel from the United States, giving the quantities and kinds respectively. Presented January 19, 1914.—*Mr. Bennett (Simcoe)*.....*Not printed.*

47. Return to an Order of the House of the 7th May, 1913, for a copy of the report concerning Indian Titles which was presented to the Superintendent General of Indian Affairs under date of August 20, 1909. Presented January 19, 1914.—*Mr. Thompson (Yukon).* *Not printed.*

48. Copy of Order in Council No. P. C. 3002, dated 29th November, 1913, in respect to Pensions or Gratuities to officers of the Royal Canadian Navy, in accordance with section 47 of the Naval Service Act, 1910. Presented by Hon. Mr. Hazen, January 19, 1913. *Not printed.*

49. Return to an Order of the House of the 26th May, 1913, for a copy of all telegrams, letters, &c., from the Department of Customs sent to or received from John C. Bourinot, Port Hawkesbury, customs officer, during the years 1895-6-7. Presented January 19, 1914. —*Mr. Chisholm (Inverness)*.....*Not printed.*

49a. Return to an Order of the House of the 26th May, 1913, for a return showing a complete list of the seizures made by John C. Bourinot, during his incumbency as acting preventive officer from 1884 to 1886; also during his term of office as Collector of Customs for the Port of Hawkesbury from 1886 to 1898, also during his term of office of special officer of customs from 1898 to 1912; with the date of each seizure, number of each seizure, name of party from whom seizure was made, in case of vessels, the names of the vessels; also the names of the owners of such vessels, the amount of each seizure, name of port where seizure was made, and the amount of the seizures made by him from 1884 to May 1, 1912, for the whole Province of Nova Scotia. Presented January 19, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

50. Statement of Governor General's Warrants issued since the last session of parliament on account of 1913-14. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*

51. Statement in pursuance of Section 17 of the Civil Service Insurance Act, for the year ending March 31, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*

52. Statement of Superannuation and Retiring Allowances in the Civil Service during the year ending December 31, 1913, showing name, rank, salary, service, allowance and cause of retirement of each person superannuated or retired, also whether vacancy is filled by promotion or by appointment, and salary of any new appointee. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*

53. Statement of Receipts and Expenditures of the Ottawa Improvement Commission to March 31, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*

54. Statement of expenditure on account of "Miscellaneous Unforeseen Expenses," from the 1st April, 1913, to the 14th January, 1914, in accordance with the Appropriation Act of 1912. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*

55. Statement of the affairs of the Royal Society of Canada, for the year ended April 30, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*

56. Statement of Temporary Loans since March 31, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*

57. Statement of Treasury Bills discounted since March 31, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*

58. Certified List of Shareholders of the Montreal City and District Savings Bank, and La Caisse D'Economie de Notre Dame de Quebec, as on the 31st December, 1913. Presented by Hon. Mr. White, January 19, 1914.....*Not printed.*

59. Copies of General Orders promulgated to the militia for the period between November 18, 1912, and November 25, 1913. Presented by Hon. Mr. Hughes, January 19, 1914. *Not printed.*

60. Return to an Order of the House of the 30th April, 1913, for a copy of the report made by the Inquiring Commissioner, Mr. J. H. Bergeron, in the inquiry lately held by him, at Quebec, *re* Doctor J. D. Page, of Quebec ,and of the reports made by the advocate of the complainant and defendant in the same cause at the request of the Inquiring Commissioner. Presented January 20, 1914.—*Mr. Boulay*.....*Not printed.*

61. Return to an Order of the House of the 26th March, 1913, for a copy of all petitions, reports, recommendations, correspondence, letters, telegrams and other communications concerning the east half of section 36, in township 6, range 8, west of the fourth meridian. Presented January 20, 1914.—*Mr. Buchanan*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

61*a*. Return to an Order of the House of the 21th February, 1913, for a copy of all memoranda, letters, papers, or other documents in the possession of the Department of the Interior relating to the N.W. ¼ of 8-19-23-4, and the S.W. ¼ of 7-49-28-4. Presented January 20, 1914.—*Mr. Oliver*.....*Not printed.*

62. Return to an Order of the House of the 22nd January, 1913, for a copy of all correspondence, &c, exchanged between the Minister of Labour and the Canadian Pacific Railway strikers on their application for a Board of Conciliation and Investigation. Presented January 20, 1914.—*Mr. Lemieux*.....*Not printed.*

63. By-laws of the Moravian Indians of the Thames and Regulations of the Abenakis Indians of St. Francis, approved by His Excellency the Administrator in Council on the 27th March, 1913, and the 21st April, 1913, respectively. Presented by Hon. Mr. Coderre, January 20, 1914.....*Not printed.*

64. General Rules and Orders of the Exchequer Court of Canada made, respectively, on the 24th September, 1913, and the 13th December, 1913. Presented by Hon. Mr. Coderre, January 20, 1914.....*Not printed.*

65. Regulations under "The Destructive Insect and Pest Act."—(*Senate*).....*Not printed.*

66. Remission of Duties and refund under Section 92, Audit Act.—(*Senate*).....*Not printed.*

67. Return to an Order of the House of the 19th May, 1913, for a return showing a comparative and detailed statement of costs of production, maintenance, operation, and management, and receipts of the Dog Fish Reduction Works at Clark's Harbour, N.S., for the years 1910, 1911 and 1912. Presented January 21, 1914.—*Mr. Maclean (Halifax)*. *Not printed.*

68. Return to an Order of the House of the 21st May, 1913, for a copy of all papers, letters, documents, contracts, settlements, records of settlements, and all other papers and documents in any way relating to the claim of the Rainy River Navigation Company against the Government, arising out of a subsidy agreement for the operation of certain boats between Fort Frances and Kenora for the season of 1911, or in connection with the settlement of the said claim, or of the said subsidy. Presented January 21, 1914.—*Mr. Maclean (York)*.....*Not printed.*

69. Return to an Order of the House of the 31st March, 1913, for a copy of all correspondence, letters, telegrams, reports, recommendations, certificates, and of all other documents relating to the appointment of Mr. J. S. Jackson as superintendent of the Government shipyards at St. Joseph de Sorel. Presented January 22, 1914.—*Mr. Cardin*. *Not printed.*

70. Return to an Order of the House of the 29th January, 1913, for a copy of all letters, petitions, telegrams, complaints, reports, bonds of indemnity, and all other papers and documents in the possession of the Post Office Department, or any department of the Government, relating to the letting of a contract for carrying the mails between Sherbrooke, County of Guysborough, N.S., and Moser's River, County of Halifax, N.S., during the years 1911 and 1912. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*

70*a*. Return to an Order of the House of the 29th January, 1913, for a copy of all letters, and other documents relating to the mail contract between Scotsburn Station and West Branch, River John, County of Pictou, in the year 1912. Presented January 22, 1914.—*Mr. Macdonald*.....*Not printed.*

70*b*. Return to an Order of the House of the 2nd April, 1913, for a copy of all correspondence, reports and other documents relative to the mail contract between Scotsburn and West Branch, River John, Pictou County, since October 1, 1911. Presented January 22, 1914.—*Mr. Macdonald*.....*Not printed.*

70*c*. Return to an Order of the House of the 10th December, 1912, for a return showing (*a*) each mail contract awarded since the 15th of October, 1911; (*b*) the name of the tenderer in each case; (*c*) the figures of each tender; and (*d*) the name of each party to whom such contract has been awarded. Presented January 22, 1914.—*Mr. Lemieux*.....*Not printed.*

70*d*. Return to an Order of the House of the 15th January, 1913, for a return showing a list of the mail carriers whose contracts have been cancelled or renewed by the present Government in the County of Two Mountains, the names of such persons, the reasons for cancelling or renewing the said contracts, the former price and the present price of the said contracts; also a copy of all correspondence relating to the said mail carriers. Presented January 22, 1914.—*Mr. Ethier*.....*Not printed.*

70*e*. Return to an Order of the House of the 9th December, 1912, for a return showing all the mail contracts made between the Post Office Department of Canada and any party or parties, and cancelled before the maturity thereof from October 15, 1911, to the 15th of November, 1912, designating such cancelled mail contracts by giving the name of the contractor, the amount of the contract, the period of the unexpired service, the name of the district or districts, and the county and province wherein the service was performed, together with the reasons for such cancellation. Presented February 12, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

70*f*. Return to an Order of the House of the 29th January, 1913, for a copy of all papers, and documents of every nature and kind relating to a certain mail contract between Back Shore and Pictou, County of Pictou, since the death of the late contractor D. G. McKay, in 1912. Presented February 20, 1914.—*Mr. Macdonald*.....*Not printed.*

70*g*. Return to an Order of the House of the 14th April, 1913, for a copy of the contract between the Post Office Department and Napoleon Le Blanc, for the carrying of the mails between Carleton Centre and Carleton, Quebec, Railway Station, and of all correspondence, petitions, and other letters bearing on the cancelling of that contract and the awarding ot a new one, with a copy of said new contract. Presented February 23, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

70*h*. Return to an Order of the House of the 2nd April, 1913, for a copy of all papers relating to the mail contract from Noël to Walton, County of Hants, during the present year. Presented February 26, 1914.—*Mr. Macdonald*.....*Not printed.*

70*i*. Return to an Order of the House of the 12th May, 1913, for a copy of all tenders for, and correspondence relating to, the awarding of the contract for the carrying of His Majesty's mail between Warkworth and Colborne, County of Northumberland. Presented February 26, 1914.—*Mr. Graham*.....*Not printed.*

70*j*. Return to an Order of the House of the 12th May, 1913, for a copy of all correspondence, papers, &c., in connection with the carrying of the mail between St. François Xavier de Brompton and Windsor Mills, Quebec. Presented February 26, 1914.—*Mr. Tobin.* *Not printed.*

70*k*. Return to an Order of the House of the 17th February, 1913, for a return showing the number of mail contracts cancelled in the Province of Nova Scotia since October 10, 1911, the names of the contractors, the prices paid to them, the reason for the cancellation in each case, and a copy of any investigations and reports had into the causes of such cancellations, the names of the new contractors and the prices paid to them in each case. Presented March 2, 1914.—*Mr. Sinclair*.....*Not printed.*

70*l*. Return to an Order of the House of the 4th December, 1912, for a return showing the number of mail contracts cancelled in the County of Pictou since the 1st of October, 1911; the names of the contractors, the prices paid to them, the reason for the cancellation in each case; and a copy of any investigations and reports had into the causes of such cancellations, the names of the new contractors and the prices paid to them in each case. Presented March 2, 1914.—*Mr. Macdonald*.....*Not printed.*

70*m*. Return to an Order of the House of the 31st March, 1913, for a copy of all tenders received and of all letters, telegrams, papers and other documents relating to the mail contract between Tatamagouche and Brulé Shore, Colchester County, during the present year. Presented March 2, 1914.—*Mr. Macdonald*.....*Not printed.*

70*n*. Return to an Order of the House of the 9th December, 1912, for a copy of all letters, telegrams and correspondence referring to the tenders received and the contracts awarded, if any, for the carrying of the mails between Antigonish and Livingstone Cove. Presented March 5, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

70*o*. Return to an Order of the House of the 19th May, 1913, for a copy of all telegrams and correspondence on file relating to the mail service between Antigonish and Livingstone Cove, and of the tenders received, and the contract entered into for this service. Presented March 12, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

70*p*. Return to an Address to His Excellency the Administrator of the 28th April, 1913, for a copy of all documents, tenders, contracts, correspondence, orders in council, &c., in reference to the mail service between Bridgetown, Port Lorne and Hampton, Parker's Cove, Annapolis County, N.S., for which service tenders were recently solicited. Presented March 12, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

70*q*. Return to an Order of the House of the 9th February, 1914, for a copy of the advertisement for tenders, and of the tenders received, and of the contract awarded last year, for the carrying of the mails between Antigonish and Livingstone Cove, and of all letters, telegrams, correspondence and documents in any way relating thereto. Presented March 12, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

70*r*. Return to an Order of the House of the 2nd February, 1914, for a return showing the names of all persons tendering, the amount of tender, and to whom awarded in 1913, for the carriage of mails covering the following mail routes in Shelburne County, Nova Scotia; Shelburne to Jordan Bay and Jordan Ferry and return; Clyde River to Upper Clyde and return; Lower Woods Harbour to Charlesville and return; Port Le Herbert to Sable River. Presented March 20, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

70*s*. Return to an Order of the House of the 9th February, 1914, for a copy of all tenders, contracts, documents, papers and correspondence in connection with tenders and contracts for the carriage of mails between Bridgetown and Port Lorne, Hampton and Parker's Cove, in 1912. Presented March 20, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

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70*t*. Return to an Order of the House of the 9th February, 1914, for a copy of the contract entered into last year for the carrying of the mails between North Lochaber and Collegeville, and of all letters, telegrams, and correspondence referring to said service and the awarding of said contract. Presented March 23, 1914.—*Mr. Chisholm (Antigonish).* *Not printed.*

70*u*. Return to an Order of the House of the 9th February, 1914, for a copy of the advertisement for tenders, and of the tenders received last year for the carrying of the mails between Merigomish and Malignant Cove, and of all letters, telegrams and correspondence and documents in any way relating thereto. Presented March 25, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

70*v*. Return to an Order of the House of the 19th March, 1914, for a return showing how many mail contracts have been cancelled in the County of Inverness from September, 1911, up to date.

2. The route of each contract, the name of the contractor, and the amount of each contract.

3. The reasons for cancelling the several contracts. Presented April 22, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

70*w*. Return to an Order of the House of the 30th March, 1914, for a copy of all letters, telegrams, correspondence, guarantee bonds, and other documents and security relating to the renewal of the contract with George A. Stewart for carrying mail between North Lochaber and West Lochaber, in or about the month of May, 1913, of the subsequent cancellation of said renewal contract, and of the contract made with Hugh D. Cameron for said service. Presented April 29, 1914.—*Mr. Chisholm (Antigonish)*..*Not printed.*

70*x*. Return to an Order of the House of the 4th March, 1914, for a copy of all correspondence, telegrams and papers generally concerning the increased railway mail subsidy recently agreed upon by the Postmaster General and the various railway companies. Presented April 30, 1914—*Mr. Lemieux*.....*Not printed.*

70*y*. Return to an Order of the House of the 4th May, 1914, for a return showing the names of the 82 tenderers for the carrying of the mails between Baie St. Paul and Murray Bay, County of Charlevoix, and the amount of the tender in each case. Presented May 8, 1914.—*Mr. Lemieux*.....*Not printed.*

70*z*. Return to an Order of the House of the 20th April, 1914, for a copy of all letters, papers, contracts, memoranda and other documents relative to the mail contract between Pictou post office and railway station, between the Post Office Department and Peter Foley. Presented May 8, 1914.—*Mr. Macdonald*.....*Not printed.*

70 (2*a*). Return to an Order of the House of the 23rd March, 1914, for a copy of all documents, letters, recommendations, &c., in connection with a contract awarded to Christophe Lavesque, of St Eleuthère, for the conveyance of the mail between St. Eleuthère and Sully. Presented May 11, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*

70 (2*b*). Return to an Order of the House of the 11th May, 1914, for a return showing:—

1. Whether Mr. David Armstrong, mail carrier of the City of Sherbrooke, has been dismissed. If so, for what cause?

2. Whether an investigation was held at which he was given an opportunity of meeting his accusers and being heard in his own defence?

3. How many years Mr. Armstrong has been in the service?

4. What remuneration he was receiving for his services?

5. Whether a successor has been appointed? If so, what his name is, who recommended him and what remuneration he received. Presented May 28, 1914.—*Mr. McCrea*.....*Not printed.*

70 (2*c*). Return to an Order of the House of the 18th May, 1914, for a copy of all correspondence, papers, tenders and other documents in any way referring to the transfer from J. A. Campbell to Alexander Macdonnell of the contract for carrying the mail from Port Hood to South West Port Hood. Presented June 2, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

70 (2*d*). Return to an Order of the House of the 17th February, 1913, for a return in duplicate showing the number of mail contracts cancelled in the Counties of Westmorland, Albert, Kings and Kent, Province of New Brunswick, since October 9, 1911, the names of the contractors, the prices paid to them, the reason for the cancellation in each case, and a copy of any investigations and reports had into the causes of such cancellations, the names of the new contractors, and the prices paid to them in each case; and in cases where tenders were asked and received preliminary to such new contracts, a statement in duplicate showing names of the tenderers, with the offers made by each, the name of the successful tenderer, and the amount or price for which contract was executed in each case; together with a copy in duplicate of all letters, correspondence and other communications relating to each such cancellation and the giving of any new contract. Presented June 2, 1914.—*Mr. Emmerson*.....*Not printed*

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71. Return to an Order of the House of the 2nd June, 1913, for a copy of all correspondence and telegrams relating to complaints, political or otherwise, made against Mrs. Marcelline Roy, postmistress at Elm Tree, Gloucester County, N.B., which led the department to issue an order for an investigation, and the said postmistress to tender her resignation, and to the appointment of her successor. Presented January 22, 1914.—*Mr. Turgeon* .....*Not printed.*

72. Return to an Order of the House, of the 26th March, 1913, for a copy of all petitions recommendations, correspondence, letters, telegrams and other communications concerning the change in location of the post office known as Masinasin, Province of Alberta. Presented January 22, 1914.—*Mr. Buchanan*.....*Not printed.*

73. Return to an Order of the House of the 31st March, 1913, for a copy of all letters, telegrams and petitions concerning the closing of the Moulin Basinet post office, Parish of St. Jean de Matha, County of Joliette. Presented January 22, 1914.—*Mr. Lemieux.* *Not printed.*

74. Return to an Order of the House of the 7th April, 1913, for the production of one sample of a patented lock and key sold by the Ontario Equipment Company of Ottawa to the Post Office Department. Presented January 22, 1914.—*Mr. Verville*.....*Not printed.*

74*a*. Return to an Order of the House of the 2nd April, 1913, for a copy of all correspondence between the Post Office Department and Alleyn Taschereau, advocate of Quebec, concerning the purchase of new locks for the mail bags. Presented January 22, 1914.—*Mr. Carvell* .....*Not printed.*

74*b*. Return to an Order of the House of the 4th March, 1914, for a copy of the application, correspondence and papers generally concerning mail lock patent No. 151043. Presented May 11, 1914.—*Mr. Lemieux*.....*Not printed.*

75. Return to an Order of the House of the 10th February, 1913, for a copy of all letters, telegrams and other correspondence exchanged between the Post Office Department and Messrs. A. de Macdonald, Elzear Monpetit and all others, relating to the change of the postmasters at Ile Perrot North and Ile Perrot South, Vaudreuil Station, Roquebrune, St. Lazare Village, Mount Oscar and Pte. Fortune, and of the report of the inquiring commissioner in each of the cases in which an inquiry was held; of the correspondence exchanged between the parties above named relative to the new post office building at Rigaud and of correspondence exchanged between the parties above mentioned, relating to the post offices lately named Choisy and Demartigny. Presented January 22, 1914.—*Mr. Boyer* .....*Not printed.*

75*a*. Return to an Order of the House of the 9th April, 1913, for a copy of all documents bearing on changes asked for in the postmastership of Port Daniel Centre, Avignon, New Richmond and Black Cape, Bonaventure County; and of all documents bearing on the closing of Black Cape East post office, Bonaventure County. Presented January 22, 1914.—*Mr. Marcil* .....*Not printed.*

75*b*. Return to an Order of the House of the 2nd February, 1914, for a copy of all letters, telegrams, papers, and other documents connected with the removal of the post office from the store of Alexander Robertson at Red Point, P.E.I., to the store of J. E. Robertson of the same place. Presented February 20, 1914.—*Mr. Hughes (P.E.I.)*..*Not printed.*

75*c*. Return to an Order of the House of the 16th February, 1914, for a copy of any complaints made against John A. Campbell, postmaster of New Richmond, Quebec, and of all correspondence bearing on any change called for in that office. Presented March 17, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

76. Return to an Order of the House of the 7th May, 1913, for a copy of all correspondence and telegrams exchanged between the Post Office Department, the Government or any member thereof, the post office inspector at St. John, N.B., or any official of the Post Office Department at St. John, N.B., on the one hand, and the postmaster at Kouchibouguac, Kent County, N.B., Mr. Cliff Atkinson, or any other person, corporation or firms, relating to the sale or non-purchase of postage stamps, or the mailing of letters, delivery of mail, &c., at the said post office; together with a copy of all correspondence, reports and other papers and documents in any wise relating thereto, on file in the Post Office Department at Ottawa, or in the office of the post office inspector at St. John, N.B.; also a copy of all regulations or orders of the Post Office Department relating to the sale of postage stamps, or the mailing of letters, or the delivery of mails, or generally as to the use of post office by residents and non-residents. Presented January 22, 1914.—*Mr. Emmerson* .....*Not printed.*

77. Return to an Order of the House of the 2nd June, 1913, for a return showing the names, dates of appointment and salary respectively, of the employees of the Moosejaw post office. Presented January 22, 1914.—*Mr. Knowles*.....*Not printed.*

77*a*. Return to an Order of the House of the 24th February, 1913, for a copy of all letters, telegrams, recommendations, petitions and documents, relating to the appointment of Mr. Pierre Cournoyer as postmaster at St. Pierre de Sorel, County of Richelieu. Presented January 22, 1914.—*Mr. Cardin*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

77*b*. Return to an Order of the House of the 14th April, 1913, for a return showing what public officers have been appointed in the City of Quebec, in the Departments of Inland Revenue, Post Office, Railways and the Transcontinental, Customs, Immigration, Marine and Fisheries, Public Works and Militia, since the 1st October, 1911, up to this date; together with the names and duties of these persons, the dates of their appointment, the salary paid in each case and the increases granted since; also the date of these increases, and which ones of these officers have passed the Civil Service examinations required for the positions which they occupy, and on what dates they passed such examinations; and also a copy of all correspondence, requests, recommendations and reports relating to the appointment of these officers. Presented January 22, 1914.—*Mr. Lachance.*
Not printed.

77*c*. Return to an Order of the House of the 29th January, 1913, for a copy of all letters, petitions, telegrams, complaints, evidence, reports and other papers and documents in the possession of the Department of Railways and Canals, or of the Intercolonial Railway, or of the Government Railways Managing Board, relating or in any manner appertaining to the appointment and employment of train or ticket agents on the Intercolonial Railway and Prince Edward Island Railway, together with a copy of all statements showing the amounts received by said agent, in cash and tickets, on the trains of the respective divisions of said railways; and also showing the amounts received during corresponding periods for the past two years, in cash and tickets, on the same trains on the said respective divisions by the conductors of said trains, when no train or ticket agents were employed thereon, either before or since the employment of such agents on the respective trains and also a copy of all statements showing the results of the experiment in employing such ticket agents. Presented January 22, 1914.—*Mr. Emmerson* ..... *Not printed.*

77*d*. Partial Return to an Order of the House of the 9th December, 1912, for a return showing when Mr. J. G. H. Bergeron was appointed commissioner to hold investigations, the number of investigations held since his appointment, salary received in each case and the amount paid for travelling expenses in each case. Presented January 22, 1914.—*Mr. Lemieux* ..... *Not printed.*

77*e*. Return to an Address to His Royal Highness the Governor General of the 29th January, 1913, for a copy of all orders in council, memoranda or instructions issued to or written to H. P. Duchemin in connection with his appointment as a commissioner to conduct investigations regarding political partisanship in the Province of Nova Scotia; also a copy of all letters received by any department of the Government from the said H. P. Duchemin relating to such investigations since the date of his appointment as such commissioner, and all instructions of whatever nature at any time issued to him relating to such investigations. Presented January 22, 1914.—*Mr. Lemieux*.....*Not printed.*

77*f*. Appointment of F. Roy, as postmaster of St. Phillipe de Nery, &c., Province of Quebec. Presented January 22, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*

77*g*. Supplementary Return to an Order of the House of the 9th December, 1912, for a return showing when Mr. J. G. H. Bergeron was appointed commissioner to hold investigations, the number of investigations held since his appointment, salary received in each case and the amount paid for travelling expenses in each case. Presented February 23, 1914.—*Mr. Lemieux* ..... *Not printed.*

77*h*. Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, telegrams, and other documents, relating to the removal of T. J. Oliver, as Dominion Lands Agent at Humboldt, Saskatchewan, his appointment to his present position, and the appointment of his successor at Humboldt. Presented March 6, 1914.—*Mr. Neely* ..... *Not printed.*

77*i*. Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, telegrams, letters of instructions, or other documents relating to the removal of W. S. McKechnie, as Dominion Lands Agent at Prince Albert, Saskatchewan, and the appointment of his successor. Presented March 6, 1914.—*Mr. Neely*.....*Not printed.*

77*j*. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, telegrams and papers generally in connection with the appointment of Joseph Lemieux as postmaster at Mont Louis, County of Gaspé. Presented March 6, 1914.—*Mr. Lemieux* ..... *Not printed.*

77*k*. Return to an Order of the House of the 7th April, 1913, for a copy of all correspondence, telegrams, petitions, affidavits, complaints, certificates, recommendations, reports and other documents relating to the engagement and appointment for the year 1913, of the captains and first and second engineers for dredging machines Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11 of the Department of Marine and Fisheries, under the control of the agency at Sorel, and employed in the deepening of the St. Lawrence below Montreal. Return to an Order of the House of the 7th April, 1913, for a copy of all correspondence, telegrams, petitions, affidavits, complaints, certificates, recommendations, reports and other documents, relating to the engagement and appointment of the captains and engineers for the year 1913, for the tugs *Carmelia, Chambly, Contrecoeur, De Lévis, Emilia, Iberville, James Howden, Jesse Hume, Lac St. Pierre, Lanoraie, Lotbinière, Portneuf, Varennes and Vercheres*, of the Department of Marine and Fisheries under the control of the agency at Sorel. Presented March 23, 1914.—*Mr. Cardin*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

77*l*. Return to an Order of the House of the 23rd March, 1914, for a return showing:—
1. How many additional employees have been added to the Customs Department in the City of Halifax, since October 10, 1911.
2. Their names and salaries at the time of their appointment, their respective salaries at present, and also their respective ages at the time of appointment.
3. Whether all of them passed the necessary Civil Service examinations for the Customs service.
4. How many temporary clerks there are upon the said Customs staff, who they are, and the dates of their appointment. Presented April 2, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

77*m*. Return to an Order of the House of the 28th April, 1913, for a copy of all letters and telegrams exchanged between the Government and Messrs. Arch. Macdonald, Elz. Monpetit and others, on the subject of the appointment of caretakers of the post office at Rigaud, Messrs. Jean Baptiste Charlebois and Napoleon Vallée. Presented April 2, 1914.—*Mr. Boyer* ..... *Not printed.*

77*n*. Return to an Order of the House of the 23rd February, 1914, for a copy of all correspondence, recommendations, &c., relating to the appointment of Allan Morrison, St. Peter's, N.S., as inspector of dwellings erected on Gregory Island, Richmond County, N.S., in 1912-1913, and of all accounts, charges, vouchers, &c., rendered to the Department of Marine and Fisheries by the said Allan Morrison as such inspector. Presented April 7, 1914.—*Mr. Kyte* ..... *Not printed.*

77*o*. Return to an Order of the House of the 9th February, 1914, for a return showing the names, date of appointment, length of service, remuneration and office held by each of all the employees of the Department of the Interior in the outside service since January 1, 1912, to December 31, 1913, not given in the Civil Service list of 1912 or 1913. Presented April 21, 1914.—*Mr. Neely*..... *Not printed.*

77*p*. Return to an Order of the House of the 16th April, 1914, for a return showing:—
1. How many appointments have been made in the Customs Department at Montreal since the 1st of October, 1911.
2. The names of the persons so appointed, and the dates of their respective appointments.
3. After what recommendations have they been appointed.
4. The salary of each of these new employees.
5. What increases of salaries have been granted in the same department since the same date, and to whom, and why. Presented April 29, 1914.—*Mr. Proulx.*
Not printed.

77*q*. Return to an Order of the House of the 2nd February, 1914, for a return showing the number of engineers, assistant engineers, draftsmen, clerks, divers, and students in engineering or surveying, or other parties employed by the Department of Public Works in the constituency of Bonaventure, from October 11, 1911, to date, with their names, residences, salaries, nature of their work, time employed, and on whose recommendation, together with a copy of all correspondence, and reports bearing on such employment, and of reports made to the said Department of Public Works in that constituency from January, 1913, to date. Presented April 30, 1914.—*Mr. Marcil (Bonaventure).*
Not printed.

77*r*. Return to an Order of the House of the 12th March, 1914, for a return showing:—
1. Whether Louis Philippe Thibault, Alphonse Poirier, J. A. Morin, C. F. Rioux, Thomas Thibault and Adjutor Demers, of Lévis, have been appointed to positions under the control of the Postmaster General of Canada.
2. If so, to what positions they have been appointed, what their duties are, when they were appointed and their salaries, respectively.
3. The names of the officers who have been dismissed and replaced by the above.
4. The total amount of the annual salaries of said dismissed officers. Presented May 4, 1914.—*Mr. Bourassa*..... *Not printed.*

77*s*. Return to an Order of the House of the 16th March, 1914, for a copy of all recommendations, protests, petitions, and representations received by the Government or any Department or Minister thereof, regarling the appointment of the present collector of customs at Antigonish, and of all the letters, telegrams and correspondence relating thereto. Presented May 15, 1914.—*Mr. Chisholm (Inverness)*..... *Not printed.*

77*t*. Return to an Order of the House of the 16th March, 1914, for a copy of all recommendations, protests, petitions, and representations received by the Governmest or any Department or Minister thereof, regarding the appointment of the present collector of customs at Antigonish, and of all the letters, telegrams and correspondence relating thereto. Presented May 16, 1914.—*Mr. Chisholm (Antigonish)*..... *Not printed.*

77*u*. Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the employment of Arthur Dubisson as immigration agent at Gravelburg, Sask., and all papers in connection with the said Dubisson, showing the moneys paid to him and the work performed by him. Presented May 30, 1914.—*Mr. Knowles.*
Not printed.

CONTENTS OF VOLUME 28—*Continued.*

78. Return to an Order of the House of the 7th April, 1913, for a copy of all documents, recommendations and correspondence relating to the resignation of C. A. R. Desjardins, as postmaster at St. Andre de Kamouraska, and the appointment of his successor. Presented January 22, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*

78a. Return to an Order of the House of the 28th April, 1913, for a copy of all complaints or charges against Fred. R. Irish, postmaster at Afton, Antigonish County, N.S., and of all correspondence on file in reference thereto. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

79. Return to an Order of the House of the 29th January, 1913, for a copy of all correspondence, papers, &c., concerning the application made by the Long Sault Development Company, with a view to dam the St. Lawrence river above the Long Sault rapids from the American to the Canadian side. Presented January 22, 1914. *Mr. Lemieux.*
Not printed.

79a. Supplementary Return to an Order of the House of the 29th January, 1913, for a copy of all correspondence, papers, &c., concerning the application made by the Long Sault Development Company, with a view to dam the St. Lawrence river above the Long Sault rapids from the American to the Canadian side. Presented February 12, 1914.—*Mr. Lemieux*.....*Not printed.*

80. Return to an Order of the House of the 21st April, 1913, for a return showing all leases of water powers granted on the Winnipeg river, the dates of such leases, to whom granted, and the location of the water powers covered by each, together with a copy of all correspondence passing between the Government, or any member thereof and any person or persons, with respect to such leases. Presented January 22, 1914. *Mr. Martin (Regina)*.....*Not printed.*

80a. Return to an Order of the House of the 2nd April, 1913, for a return showing whether the Government cancelled any water lot leases on the Lachine Canal and, if so, the dates of such cancellation; the names of the lessees; length of time the cancelled leases were in force, and the rental paid in each case; the names of the lessees whose water lot leases on the said canal have not been cancelled, and the rental paid by each; the basis on which rental has been calculated and the method to be followed in future; the reasons why some leases were cancelled and others allowed to remain in force; and if tenders are to be invited through the press for such water lot leases in future. Presented January 22, 1914.—*Mr. Buchanan*.....*Not printed.*

80b. Return to an Order of the House of the 23rd April, 1913, for a return showing all leases or permits granted to clubs or individuals to erect or maintain boat houses on the Rideau canal between Laurier avenue bridge and Hartwells Locks, the date of such leases or permits, to whom granted, and the rental in each case; together with a copy of all correspondence between the Government, or any member thereof, and any person or persons with respect to such leases or permits and the cancellation thereof. Presented January 22, 1914.—*Mr. Murphy*.....*Not printed.*

80c. Supplementary Return to an Order of the House of the 2nd April, 1913, for a return showing whether the Government cancelled any water lot leases on the Lachine canal and, if so, the date of such cancellation; the names of the lessees; length of time the cancelled leases were in force, and the rental paid in each case; the names of the lessees whose water lot leases on the said canal have not been cancelled, and the rental paid by each; the basis on which rental has been calculated and the method to be followed in future; the reasons why some leases were cancelled and others allowed to remain in force; and if tenders are to be invited through the press for such water lot leases in future. Presented March 13, 1914.—*Mr. Buchanan*.....*Not printed.*

80d. Return to an Order of the House of the 23rd March, 1914, for a copy of the agreement for a lease of water power on the Saskatchewan river at Rocky Rapids, Alberta, made with the Edmonton Power Company, with information in detail as to the operations carried on by the company to date. Presented April 21, 1914.—*Mr. Oliver*.....*Not printed.*

81. Return to an Order of the House of the 28th April, 1913, for a return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between October 10, 1911, and the present date, together with a statement of the gross amount paid therefor between the above dates to each of said newspapers or to the proprietors of the same. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*

81a. Partial Return to an Order of the House of the 30th April, 1913, for a return showing a list of all newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between the 10th day of October, 1906, and 10th October, 1907, and between said dates in each of the years following up to the 10th of October, 1911, together with a statement of the gross amouot paid therefor for the years mentioned, to each of the said newspapers or the proprietors of the same. Presented January 22, 1914—*Mr. Thornton*.....*Not printed.*

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81*b*. Supplementary Return to an Order of the House of the 30th April, 1913, for a return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between the 10th day of October, 1906, and 10th October, 1907, and between said dates in each of the years following up to the 10th of October, 1911, together with a statement of the gross amount paid therefor for the years mentioned, to each of the said newspapers or the proprietors of the same. Presented April 1, 1914.—*Mr. Thornton*.....*Not printed.*

81*c*. Further Supplementary Return to an Order of the House of the 28th April, 1913, for a return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between Octoper 10, 1911, and the present date, together with a statement of the gross amount paid therefor between the above dates to each of said newspapers or to the proprietors of the same. Presented April 2, 1914.—*Mr. Sinclair*.....*Not printed.*

81*d*. Supplementary Return to an Order of the House of the 30th April, 1913, for a Return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between the 10th day of October, 1906, and 10th October, 1907, and between said dates in each of the years following up to the 10th of October, 1911; together with a statement of the gross amount paid therefor for the years mentioned, to each of the said newspapers or the proprietors of the same. Presented April 2, 1914.—*Mr. Thornton*....*Not printed.*

81*e*. Return to an Order of the House of the 15th April, 1914, for a return showing how much money has been paid by the Government, or any department thereof, since October 10, 1911, to the Herald Publishing Company of Halifax, N.S., for advertising, printing and lithographing. Presented April 27, 1914.—*Mr. Sinclair*.....*Not printed.*

81*f*. Return to an Order of the House of the 4th February, 1914, for a return showing the names of all printing and publishing companies, and newspapers in Nova Scotia to whom any sum of money has been paid respectively, by any department of Government, during the calendar years 1912 and 1913 respectively, and the nature of the service rendered therefor. Presented April 29, 1914.—*Mr. Maclean (Halifax)*....*Not printed.*

81g. Supplementary Return to an Order of the House of the 28th April, 1913, for a return showing a list of all the newspapers in Canada in which advertisements have been inserted by the Government, or any minister, officer or department thereof, between October 10, 1911, and the present date, together with a statement of the gross amount paid therefor between the above dates to each of said newspapers or to the proprietors of the same. Presented May 11, 1914.—*Mr. Sinclair*.....*Not printed.*

82. Return to an Order of the House of the 3rd February, 1913, for a copy of all letters, correspondence, reports and other documents in the possession of the Department of Railways and Canals relating to an application by the Central Railway Company of Canada to the Honourable Minister of Railways and Canals for the approval of their proposed route between Hawkesbury and South Indian. Presented January 22, 1914.—*Mr. Proulx* .....*Not printed.*

83. Return to an Order of the House of the 9th December, 1912, for a copy of all documents, papers, memoranda, rulings, findings, appeals and correspondence relating to any appeal asserted from any decision, ruling or finding of the Board of Railway Commissioners of Canada to the Privy Council of Canada, and the action taken by the Privy Council thereon. Presented January 22, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

84. Return to an Order of the House of the 7th May, 1913, for a return showing the total cost of the Elmira Branch Railway in Prince Edward Island; the total amounts paid the contractors, Whitehead Brothers; the total amount paid by the Government after taking the work off the contractor's hands, and showing the amount paid in wages each month, the names of the men to whom it was paid, the positions they held, and the wages per day to each; also showing what materials were used, each kind and class, with the cost of each, from whom purchased, and when, and the quantities left over, if any. Presented January 22, 1914.—*Mr. Hughes (P.E.I.)*.....*Not printed.*

85. Return to an Order of the House of the 15th January, 1913, for a copy of all letters, telegrams, correspondence and documents referring in any way to the claim of the municipalities of Pictou, Antigonish, Guysboro and St. Mary's for payment or refund to them of the monies paid by said municipalities for the right of way of that part of the Intercolonial Railway running through the Counties of Pictou, Antigonish and Guysboro. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

85*a*. Return to an Order of the House of the 12th May, 1913, for a copy of all claims made by H. F. McDougall, of Grand Narrows, N.S., against the Intercolonial Railway, and of all letters, telegrams and other documents in connection with the said claim or claims; together with the particulars of said claims; the amount or amounts paid upon said claim or claims; the particular items of the claim or claims upon which payments, if any, were made; the date of the filing of the claims and of the payment or payments made thereon; and the total amount paid on said claims or upon any other claims made by the said H. F. McDougall against the said Intercolonial Railway or the Government of Canada. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*

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85*b*. Return to an Order of the House of the 16th February, 1914, for a copy of all documents, letters, petitions, telegrams and evidence heard, reports, &c., in connection with the claims of Eugene Demers and Joseph Olivier, of the parish of St. Nicholas, County of Lévis, for damages arising out of fires caused by the Intercolonial Railway's locomotives; and, if investigations have been held, a copy of all evidence and documents relating thereto. Presented March 6, 1914.—*Mr. Bourassa*.....*Not printed.*

85*c*. Return to an Order of the House of the 27th April, 1914, for a copy of all letters, telegrams, reports, correspondence and documents relative to the claims made for damages from a fire in the village of Hopewell, County of Pictou, which was occasioned by sparks from a locomotive on the Intercolnial Railway. Presented May 13, 1914.—*Mr. Macdonald*.....*Not printed.*

86. Return to an Order of the House of the 14th May, 1913, for a copy of all reports, correspondence and other documents on file in the Department of Raiwlays and Canals, relating in any way to a suggested survey and construction of a line of railways from Country Harbour, Guysborough County, N.S., to Cape George, N.S., or any other point in Antigonish County. Presented January 22, 1914.—*Mr. Chisholm (Antigonish)*.
Not printed.

86*a*. Return to an Order of the House of the 29th January, 1912, for a copy of all letters, written to the Right Honourable the Prime Minister, the Honourable the Minister of Railways and Canals, or any other member of the Government since October 10, 1911, by S. R. Griffin, Goldboro, N.S., John S. Wells, White Head, N.S., and G. A. R. Rowlings, Sydney, N.S., relating to the construction of a branch line of the Intercolonial Railway into the County of Guysboro, N.S., also of the replies to the same. Presented January 22, 1914.—*Mr. Sinclair*.....*Not printed.*

87. Return to an Order of the House of the 27th January, 1913, for a copy of the contract entered into by C. R. Scoles, New Carlisle, Quebec, with the Department of Railways and Canals for the completion of the Atlantic and Lake Superior Railway between Caplin and Paspebiac, and of the report of the engineers on such work, of details of payments, and of all documents bearing on such matter. Presented January 22, 1914.—*Mr. Marcil*.....*Not printed.*

88. Return to an Order of the House of the 21st May, 1913, for a copy of all documents, correspondence, reports and inquiries, relating to an accident which occurred at Trois Pistoles, Intercolonial Railway on 10th September, 1912, respecting the death of Arsène Ouellet, and the wounds inflicted on Joseph Gagnon, at the time that these two men were struck by train No. 150 on the above date. Presented January 22, 1914.—*Mr. Boulay*.....*Not printed.*

89. Annual Return respecting Trade Unions under Chapter 125, R.S.C., 1906. Presented by Hon. Mr. Coderre, January 22, 1914.....*Not printed.*

90. Return to an Order of the House of the 29th January, 1913, for a return showing:—

1. What purchases of land have been made by the Dominion of Canada since Confederation?
2. The amount of money paid for same?
3. The approximate area of land so purchased?
4. In what provinces the said land is now situated?
5. The approximate area in each province?
6. The acreage of school lands set aside by the Government for the Provinces of Manitoba, Saskatchewan and Alberta?
7. The present approximate value of the said school lands so set aside in each of the said Provinces?
8. The number of acres of the said school lands already sold in each of the said Provinces, and the proceeds of such sales, deducting expenses?
9. The acreage of lands set apart at any time by the Government as an endowment to any university, the name of the university, and the Province in which the lands are situated?
10. The number of acres of swamp lands transferred to the Province of Manitoba under the provisions of Chapter 50 of the Acts if 1885 and amendments thereto?
11. The gross amount of cash allowance made at any time by the Federal Government to each or any Province of Canada, to assist in the construction of necessary public buildings?
12. The approximate value of the railway, public works and other assets of each of the Provinces of Canada, taken over by the Federal Government at the time that each Province entered the union?
13. The annual compensation made to the Province of Manitoba, Saskatchewan and Alberta, by reason of the fact that they are deprived of the public lands as a source of revenue?
14. The debt allowance to any time placed to the credit of each of the Provinces of Canada by the Federal Government. Presented January 22, 1914.—*Mr. Sinclair.*
Not printed.

CONTENTS OF VOLUME 28—*Continued.*

90*a*. Supplementary Return to an Order of the House of the 29th January, 1913, for a return showing:—

1. What purchases of land have been made by the Dominion of Canada since Confederation?
2. The amount of money paid for same?
3. The approximate area of land so purchased?
4. In what Provinces the said land is now situated?
5. The approximate area in each Province?
6. The acreage of school lands set aside by the Government for the Provinces of Manitoba, Saskatchewan and Alberta?
7. The present approximate value of the said school lands so set aside in each of the said Provinces?
8. The number of acres of the said school lands already sold in each of the said Provinces, and the vroceeds of such sales, deducting expenses.
9. The acreage of lands set apart at any time by the Government as an endowment to any university, the name of the university, and the Province in which the lands are situated?
10. The number of acres of swamp lands transferred to the Province of Manitoba under the provisions of Chapter 50 of the Acts of 1885 and amendments thereto?
11. The gross amount of cash allowance made at any time by the Federal Government to each or any Province of Canada, to assist in the construction of necessary public buildings?
12. The approximate value of the railway, public works and other assets of each of the Provinces of Canada, taken over by the Federal Government at the time that each Province entered the union?
13. The annual compensation made to the Provinces of Manitoba, Saskatchewan and Alberta, by reason of the fact that they are deprived of the public lands as a source of revenue?
14. The debt allowance to any time placed to the crédit of each of the Provinces of Canada by the Federal Government. Presented March 12, 1914.—*Mr. Sinclair.*
Not printed.

91. Partial Return to an Order of the House of the 12th May, 1913, for a return showing the names and purposes of the several Commissions created by legislation or Orders in Council since October 12, 1911; the names of the members of the several commissioners, with their respective salaries and remuneration; the names of commissions still in existence; and the names of commissions created since October 12, 1911, which have ceased to exist. Presented January 22, 1914.—*Mr. Oliver*.....*Not printed.*

91*a*. Partial Return to an Address to His Royal Highness the Governor General of the 4th December, 1912, for a copy of each Commission issued by the Government since October 10, 1911, directing an investigation to be held; and also for a copy of the evidence taken and the report made in each case that has been concluded. Presented January 22, 1914.—*Mr. Murphy* .....*Not printed.*

91*b*. Further Supplementary Return to an Address to His Royal Highness the Governor General of the 4th December, 1912, for a copy of each Commission issued by the Government since October 10, 1911, directing an investigation to be held; and also for a copy of the evidence taken and the report made in each case that has been concluded. Presented February 9, 1914.—*Mr. Murphy*.....*Not printed.*

91*c* Return to an Order of the House of the 9th December, 1912, for a return showing the number of Commissions formed by the Government since September 21, 1912, the names and the occupations of the Commissioners appointed, their duties, the duration of their services, and their remuneration. Presented February 12, 1914.—*Mr. Devlin.*
Not printed.

91*d*. Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of the Order in Council appointing a Commission for the purpose of beautifying the city of Ottawa and vicintiy, of all correspondence with regard to the same, and of all reports made by the commission up to date. Presented March 6 1914.—*Sir W. Laurier* .....*Not printed.*

91*e*. Supplementary Return to an Order of the House of the 12th May, 1913, for a return showing the names and purposes of the several Commissions created by legislation or Orders in Council since October 12, 1911; the names of the members of the several commissioners, with their respective salaries and remuneration; the names of commissions still in existence; and the names of commissions created since October 12, 1911, which have ceased to exist. Presented March 9, 1914.—*Mr. Oliver*.....*Not printed.*

91*f*. Return to an Order of the House of the 9th February, 1914, for a return showing the number and particulars of Commissions appointed or issued under the Inquiries Act since October 1, 1911, the purpose or object thereof, the name of the Commissioner or Commissioners, and the cost of each to the present time. Presented May 29, 1914.—*Mr. Maclean (Halifax)* .....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

92. Partial Return to an Order of the House of the 28th April, 1913, for a return showing all those who have been holding investigations within the judicial district of Three Rivers, since October 15, 1911, to date, in reference to the conduct of men holding offices from the Dominion Government, the place where each investigation was held, the amount paid to each investigator in each case; the names of the solicitors employed in each case, the post office addresses, and the amount paid in each case to the solicitor. Presented January 22, 1914.—*Mr. Bureau*.....*Not printed.*

93. Return to an Order of the House of the 26th March, 1913, for a return showing whether the Government paid or intends to pay fees and disbursements of the witnesses summoned by the commissioners appointed by it in the County of L'Avis, to hold inquiries on the conduct of public officers whose dismissal had been requested; the amounts which have been paid and to whom, and the sum remaining to be paid for the same purpose. Presented January 23, 1914.—*Mr. Bourassa*.....*Not printed.*

93*a*. Partial Return to an Order of the House of the 4th June, 1913, for a return showing the total expenditure to date by the present administration in connection with the investigation of charged partisan conduct against officials. Presented January 23, 1914.—*Mr. Sinclair* .....*Not printed.*

93*b*. Partial Return to an Order of the House of the 7th May, 1913, for a return showing in detail the names of witnesses summoned by Commissioner H. P. Duchemin in connection with all investigations held by him in the counties of North Cape Breton and Victoria, South Cape Breton, Inverness and Antigonish, Nova Scotia, and the amounts paid in each such case. Presented January 23, 1914.—*Mr. Carroll*.....*Not printed.*

93*c*. Return to an Order of the House of the 9th April, 1913, for a return showing in detail the expenditure incurred since October 11, 1911, in connection with investigations held in Bonaventure County by commissioners appointed by the Departments of the Post Office, Customs, and Marine and Fisheries into charges made against employees of said departments of offensive political partisanship, together with the names and amounts paid to each of said commissioners in each investigation, as well as details of amounts paid to witnesses and others. Presented January 23, 1914.—*Mr. Marcil*.....*Not printed.*

93*d*. Return to an Order of the House of the 26th February, 1913, for a copy of all statements of account for salary or remuneration to the commissioner, and his expenses for witness fees, and all other expenses in connection with the investigation by Commissioner Duchemin, of the following persons in the County of Guysboro, Nova Scotia namely:—

H. L. Tory, fishery officer, Guysboro.
John W. Davis, fishery officer, Guysboro.
Patrick Shea, postmaster, Tompkinsville.
John M. Rogers, postmaster, East Roman Valley.
James Bowles, postmaster, Alder River.
Abner M. Carr, postmaster, St. François Harbour.
Everett Hadley, postmaster, Oyster Ponds.
Parker S. Hart, postmaster, Lower Manchester.
S. M. Ferguson, preventive officer, Oyster Pond.
Robert Hendsbee, postmaster, Half Island Cove.
A. B. Cox, Manager Reduction Works, Canso.
Edward Kelly, engineer, Reduction Works, Canso.
D. S. Hendsbee, weigher, Reduction Works, Canso.
Alex. Roberts, postmaster, Canso.
David Sutherland, caretaker, Canso.
Henry Hanlon, chief engineer, Hatchery, Canso.
Thos. Sullivan, assistant engineer, Canso.
W. G. Matthew, cockswain life-boat, Canso.
Patrick Ryan, assistant cockswain life-boat, Canso.
M. McCutcheon, postmaster, Sonora.
Stanley McCutcheon, preventive officer, Sonora.
Freeman Pride, lightkeeper, Sonora.
David Reid, fishery officer, Port Hilford.
L. M. Pye, customs officer, Liscomb.
Stanley Hemlow, lightkeeper, Liscomb.
W. H. Hemlow, keeper storm drum, Liscomb.
R. Conroy, postmaster, Country Harbour.
John Milward, postmaster, Stormont.
A. W. Salsman, postmaster, Lower Country Harbour.
W. B. Harris, postmaster, Whitehead.
E. L. Munro, customs officer, Whitehead.
W. L. Munro, lightkeeper, Whitehead.
Patrick Conway, lightkeeper, Whitehead.
H. P. Munro, cockswain life-boat, Whitehead.
Levi Munro, harbour master, Whitehead.
William McKinnon, postmaster, Erinville.

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J. H. McMillan, manager hatchery, Isaac's Harbour.
Sanford Langley, postmaster, Isaac's Harbour North.
Fred. E. Cox, engineer lobster hatchery, Isaac's Harbour.
Simon Hodgson, assistant engineer, Isaac's Harbour.
Archibald Brass, postmaster, L. New Harbour.
Parker Sangster, postmaster, New Harbour West.
William Gerrior, customs officer, Larry's River.
James M. Webber, lightkeeper, Torbay Point.
W. A. Hattie, preventive officer, Mulgrave.
J. F. Reeves, postmaster, Mulgrave.
John P. Meagher, foreman deck-hand, Mulgrave.
Philip H. Ryan, Intercolonial Railway employee, Mulgrave.
Alex. Wilkinson, Intercolonial Railway employee, Mulgrave.
Alex. McInnis, car inspector, Mulgrave.
Frank Fougere, postmaster, Port Felix.
Sam. Smith, postmaster, Port Felix, West.
Captain Freeman Myers, postmaster, Cole Harbour.
George Taylor, postmaster, Beckertbn.
Stephen C. Richard, lightkeeper, Charlo's Cove. Presented January 26, 1914.—*Mr. Sinclair* ..... *Not printed.*

93e. Supplementary Return to an Order of the House of the 7th May, 1913, for a return showing in detail the names of witnesses summoned by Commissioner H P. Duchemin in connection with all investigations held by him in the Counties of North Cape Breton and Victoria, South Cape Breton, Inverness and Antigonish, Nova Scotia, and the amounts paid in each such case. Presented February 10, 1914.—*Mr. Carroll*..... *Not printed.*

93f. Return to an Order of the House of the 9th December, 1912, for a return showing when H. P. Duchemin, of Sydney, Nova Scotia, was appointed commissioner to hold investigations, the number of investigations held since his appointment, names of officials investigated, if evidence and report in each investigation has been forwarded by Mr. Duchemin to the department interested, if not, in what cases has no evidence and report been submitted, salary or remuneration received in each case, and amount paid for travelling expenses in each case. Presented February 10, 1914.—*Mr. Carroll.* *Not printed.*

93g. Return to an Order of the House of the 23rd February, 1914, for a return showing the expenditures by the Intercolonial Railway in connection with all the inquiries and investigations held by H. P. Duchemin, concerning any and all employees of the Department of Railways and Canals, or of the Intercolonail Railway, for any cause whatever, and relating to any complaints or charges, or to any matter of whatsoever nature, giving in detail the items of all accounts or bills of or payments to the said H. P. Duchemin in connection with same, during the years 1912, 1913, and for the year 1914 to date; together with a statement showing the total amounts paid in each specified investigation and the total paid in each year, for the whole period to the said H. P. Duchemin. Presented March 5, 1914.—*Mr. Emmerson*..... *Not printed.*

93h. Supplementary Return to an Order of the House of the 7th May, 1913, for a return showing in detail the names of witnesses summoned by Commissioner H. P. Duchemin in connection with all investigations held by him in the Counties of North Cape Breton and Victoria, South Cape Breton, Inverness and Antigonish, Nova Scotia, and the amounts paid in each such case. Presented March 17, 1914.—*Mr. Carroll*..... *Not printed.*

93i. Return to an Order of the House of the 23rd March, 1914, for a return showing in detail the expenses and cost of an inquiry or investigation held by Commissioner Adair, under the authority of the Department of Railways and Canals, into the affairs of the Electrical Branch of the Intercolonial Railway at Moncton, and the conduct of John W. Gaskin and others, in relation to their services in said branch or otherwise, held during the year 1912; together with the names of the commissioner, the agents, attorneys, counsel, constables, police officers, detectives, witnesses or other persons in connection with said inquiry; the number of days consumed and paid for in the conduct thereof, and the services rendered by each person in connection therewith; and a detailed statement of the sum or sums of money paid to each party therefor, at what rate and the amounts paid to each witness sworn and in attendance or otherwise, together with a copy of all bills, claims or accounts rendered in connection with said inquiry, and of all vouchers for moneys paid, by whom paid and to whom; with a copy of all letters or other correspondence relating to the appointment of a commissioner, and of counsel to be engaged or other officers employed, and relating to the compensation to be paid for services, and in connection with any of said bills, accounts, payments and vouchers, with a statement or summary of the total cost of said investigation, showing the number of railway employees called as witnesses, the witness fees allowed and paid them, and the cases in which their time respectively was not allowed them while absent to give such evidence, and the cases to which such time was allowed and no deduction made from their wages or salaries for the period of their absence in attendance at such inquiry as such witnesses respectively. Presented May 13, 1914.—*Mr. Emmerson*.... *Not printed.*

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94. Return to an Order of the House of the 9th December, 1912, for a return showing how many citizens of the United States have been employed by the Government since November 1, 1911, in what department employed, their names and occupations and salary paid to each, and also, the number appointed under section 21 of the Civil Service Act. Presented January 21, 1914.—*Mr. Murphy*.....*Not printed.*

95. Return to an Order of the House of the 23rd April, 1913, for a copy of all letters, telegrams, papers and documents in any way relating to the purchase of property at Long Beach St. Mary's, Digby County, N.S., for a lobster pond. Presented January 23, 1914.—*Mr. Law*.....*Not printed.*

96. Return to an Order of the House of the 24th February, 1913, for a copy of all requests, petitions, &c., made to the Government, or any department thereof by the residents of Mira, County of Cape Breton, for subsidies for boats, wharf accommodations, or increased facilities on the Mira river. Presented January 23, 1914.—*Mr. Carroll*. *Not printed.*

97. Return to an Order of the House of the 7th May, 1913, for a copy of all reports, correspondence, telegrams and other documents in the custody or control of the Militia Department or the Railway Department, concerning matters brought to the attention of the Militia Department by B. A. Ingraham, of Sydney, N.S., with reference to the transportation of the Sydney militia over the Intercolonial Railway in the year 1912. Presented January 23, 1914.—*Mr. Carroll*.....*Not printed.*

98. Medical inspection of immigrants at port of entry in Canada.—*(Senate)*.....*Not printed.*

99 Public health service, several branches of R.S. engaged in.—*(Senate)*.....*Not printed.*

100. Proposed harbour at Skinner's Pond—Surveys made for, &c.—*(Senate)*.....*Not printed.*

101. Investigation held in 1912 re dredging operations in British Columbia.—*(Senate)*. *Not printed.*

101a. Investigation held by Mr. Wilson, B.C., against Captain Murdock Young.—*(Senate)*. *Not printed.*

102. Quantities of wheat by grades received at elevators at Fort William.—*(Senate)*. *Not printed.*

103. Projected railway or highway bridge over the Restigouche River, N.B. Presented January 26, 1914.—*Mr. Marcil*.....*Not printed.*

104. Relating to the employees of the different departments at Ottawa, the provinces, and territories, &c. Presented January 26, 1914.—*Mr. Wilson (Laval)*.....*Not printed.*

104a. Return to an Order of the House of the 11th December, 1912, for a return showing for each department of the Civil Service, the names, ages, offices and salaries of such persons employed either in the inside or outside divisions thereof, and of such persons not in the Civil Service employed by the Government in any department since the 10th October, 1911; and in cases where no commission of investigation was appointed, as have been removed from office by dismissal, superannuation or otherwise, specifying in each case the manner of, and grounds for such removal, and the length of notice given to the person removed, and the amount of superannuation or gratuity granted, if any; also showing the name, age, office and salary or remuneration of any and every person appointed to the Civil Service in the place of, or as a consequence of any such removal. Presented January 26, 1914.—*Mr. Murphy*.....*Not printed.*

104b. Partial Return to an Order of the House of the 11th December, 1912, for a return showing for each department of the Civil Service, the names, ages, offices and salaries of such persons employed either in the inside or outside divisions thereof, and of such persons not in the Civil Service employed by the Government in any department since the 10th October, 1911; and in cases where no commission of investigation was appointed, as have been removed from office by dismissal, superannuation or otherwise, specifying in each case the manner of, and grounds for such removal, and the length of notice given to the person removed, and the amount of superannuation or gratuity granted, if any; also showing the name, age, office and salary or remuneration of any and every person appointed to the Civil Service in the place of, or as a consequence of any such removal. Presented February 10, 1914.—*Mr. Murphy*.....*Not printed.*

104c. Further Supplementary Return to an Order of the House of the 11th December, 1912, for a return showing for each department of the Civil Service, the names, ages, offices and salaries of such persons employed either in the inside or outside divisions thereof, and of such persons not in the Civil Service employed by the Government in any department since the 10th October, 1911; and in cases where no commission of investigation was appointed, as have been removed from office by dismissal, superannuation or otherwise, specifying in each case the manner of, and grounds for such removal, and the length of notice given to the person removed, and the amount of superannuation or gratuity granted, if any; also showing the name, age, office and salary or remuneration of any and every person appointed to the Civil Service in the place of, or as a consequence of any such removal. Presented March 10, 1914.—*Mr. Murphy*.....*Not printed.*

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104*d*. Return to an Order of the House of the 23rd February, 1914, for a return showing the total number of officials and employees in the Department of Public Printing and Stationery on February 1, 1914; and the increase in wages granted to the several groups of employees during the year 1913. Presented March 18, 1914.—*Mr. Murphy.* *Not printed.*

104*e*. Return to an Order of the House of the 23rd February, 1914, for a return showing how many persons have been appointed to positions in the inside Civil Service since October 10, 1911, who had not passed the public competitive examination held by the Civil Service Commission in May and November of each year.

2. How many of such persons were appointed in each department. Presented March 23, 1914.—*Mr. Murphy*.....*Not printed.*

104*f*. Return to an order of the House of the 4th March, 1914, for a return showing how many persons have been appointed to the Inside Service of the Post Office Department by the present Government, with the names of the appointees, the grade each of them was appointed to, and the salary in each case; how many of these appointees passed the Civil Service examination, and how many did not do so, with the names in each case. Presented April 1, 1914.—*Mr. Proulx*.....*Not printed.*

104*g*. Further Supplementary Return to an Order of the House of 11th December, 1912, for a return showing for each department of the Civil Service, the names, ages, offices and salaries of such persons employed either in the inside or outside divisions thereof, and of such persons not in the Civil Service employed by the Government in any department since the 10th October, 1911; and in cases where no commission of investigation was appointed, as have been removed from office by dismissal, superannuation or otherwise, specifying in each case the manner of, and grounds for such removal, and the length of notice given to the person removed, and the amount of superannuation or gratuity granted, if any; also showing the name, age, office and salary or remuneration of any and every person appointed to the Civil Service in the place of, or as a consequence of any such removal. Presented April 2, 1914.—*Mr. Murphy*.....*Not printed.*

104*h*. Return to an Order of the House of the 2nd April, 1914, for a return showing how mnay certificates for promotion have been asked from the Civil Service Commissioners since the 31st March, 1913; how many of such certificates have been refused, and to whom, and the reasons given in each case for such refusal. Presented April 16, 1914.—*Mr Carroll* .....*Not printed.*

104*i*. Return to an Order of the House of the 30th March, 1914, for a return showing the salary of each deputy minister; the number of clerks or employees under each of the deputy ministers, or over whose work the deputy is supposed to exercise supervision; the salary of the Customs Commissioner, and length of time employed. Presented April 23, 1914. —*Mr. Chisholm (Inverness)* .....*Not printed.*

105. Return called for by Section 88, of Chapter 62, Revised Statutes of Canada, requiring that the Minister of the Interior shall lay before Parliament, each year, a return of liquor brought from any place out of Canada into the Territories by special permission in writing of the Commissioner of the Northwest Territories. Presented by Hon. Mr. Roche, January 27, 1914 .....*Not printed.*

106. Copy of the Seventh Joint Report of the Commissioners for the Demarcation of the Meridian of the 141st Degree of West Longitude. Presented by Hon. Mr. Roche, January 28, 1913.....*Not printed.*

107. Return showing lands sold by the Canadian Pacific Railway Company during the year which ended on the 1st October, 1913. Presented by Hon. Mr. Roche, January 28, 1914. *Not printed.*

108. Regulations relating to the Parcel Post Service, 1914. Presented by Hon. Mr. Pelletier, January 28, 1914.....*Not printed.*

109. Report of the proceedings of the Commisioners of Internal Economy of the House of Commons for 1912-1913, pursuant to Rule 9. Presented by His Honour the Speaker, February 2, 1913 .....*Not printed.*

110. Return of Orders in Council which have been published in the *Canada Gazette* between the 1st October, 1912, and 30th November, 1913, in accordance with the provisions of "The Forest Reserves and Park Act," Section 19, of Chapter 10, 1-2 George V. Presented by Hon. Mr. Roche, February 2, 1914.....*Not printed.*

110*a*. Return of Orders in Council which have been published in the *Canada Gazette*, between the 1st October, 1912, and 30th November, 1913, in accordance with the provisions of Section 5 of "The Dominion Lands Survey Act," Chapter 21, 7-8 Edward VII. *Not printed.*

110*b*. Return of Orders in Council which have been published in the *Canada Gazette*, between 1st October, 1912, and 30th November, 1913, in accordance with the provisions of Section 77 of "The Dominion Lands Act," Chapter 20 of the Statutes of Canada, 1908. *Not printed.*

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110c. Return of Orders in Council which have been published in the *Canada Gazette* and in the British Columbia *Gazette*, between 1st October, 1912, and 30th November, 1913, in accordance with provisions of subsection (*d*) of Section 38 of the regulations for the survey, administration, disposal and management of Dominion lands within the 40-mile railway belt in the Province of British Columbia. Presented by Hon. Mr Roche, February 2, 1914.....*Not printed.*

110d. Return of copies of all Orders in Council, plans, papers and correspondence which are required to be presented to the House of Commons, under a resolution passed on the 20th February, 1882, since the date of the last return, under such resolution. Presented by Hon. Mr. Roche, January 28, 1914.....*Not printed.*

110e. Return to an Order of the House of the 9th February, 1914, for a copy of all letters, papers, homestead inspector's reports, declarations and of all other documents connected in any way with the entry and cancellation proceedings against the homestead entry of James Bruce for the southeast quarter section 36, in township 19, range 27, West second meridian. Presented March 6, 1914.—*Mr. Neely*.....*Not printed.*

110f. Return to an Order of the House of the 9th February, 1914, for a copy of all papers in connection with the disposition of the S.E. ¼, section 16, township 25, range 5, West fifth meridian. Presented March 10, 1914.—*Mr. Oliver*.....*Not printed.*

110g. Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the S.W. ¼, 23-16-12 W, 3 M. Presented March 10, 1914.—*Mr. Knowles*.....*Not printed.*

110h. Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the N.E. ¼-22-11-5-W. 3 M. Presented March 23, 1914.—*Mr. Knowles.* *Not printed.*

110i. Return to an Order of the House of the 2nd February, 1914, for a copy of all letters, telegrams and papers concerning coal lands situate in 28-19, 27-18, 27-17 and 28-18 West of the fourth meridian. Presented April 21, 1914. *Mr. Buchanan*.....*Not printed.*

110j. Supplementary Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the N.E. ¼-22-11-5 W. 3 M. Presented May 5, 1914.—*Mr. Knowles*.....*Not printed.*

110k. Return to an Address to His Royal Highness the Governor General of the 20th April, 1914, for a copy of all documents, letters, telegrams, papers, Orders in Council and agreements of sale, in connection with the sale by the Government of Canada of the following lands in the railway belt in British Columbia, viz.: Townships 23 and 24, range 18; townships 23 and 24, range 19; townships 24 and 25, range 20; townships 25, 26 and 27, range 21; townships 26 and 27, range 22, all West of the fifth meridian. Presented May 18, 1914.—*Mr. Buchanan*.....*Not printed.*

110l. Return to an Order of the House of the 27th April, 1914, for a copy of all letters, telegrams, &c., in the Department of the Interior in connection with the N.W. ¼ section 20-4, range 16 west of the second meridian. Presented May 18, 1914.—*Mr. Turriff.* *Not printed.*

110m. Return to an Order of the House of the 27th April, 1914, for a copy of all papers, letters, telegrams, &c., in possession of the Department of the Interior in connection with the N-½-1-3-16-W. 2-M. Presented May 18, 1914.—*Mr. Turriff*.....*Not printed.*

111. Correspondence between the Imperial Government and the Government of Canada, and other documents, relating to Imperial Naturalization. Presented by Hon. Mr. Doherty, February 4, 1914.....*Not printed.*

111a. Return to an Oder of the House of the 2nd February, 1914, for a copy of all correspondence and documents, or other information, as to the passage of an Act in Great Britain and the different Dominions, providing for uniformity of the Naturalization Law. Presented February 18, 1914.—*Mr. Macdonald*.....*Not printed.*

112. Account of the average number of men employed on the Dominion Police Force during each month of the year 1913, and of their pay and travelling expenses, pursuant to Chapter 92, section 6, subsection 2, of the Revised Statutes of Canada. Presented by Hon. Mr. Doherty, February 5, 1914.....*Not printed.*

113. Copy of Agreement between the Government of Canada and the Royal Mail Steam Packet Company, for a steamship service between Canada and the British West Indies. Presented by Hon. Mr. Foster, February 9, 1914.....*Not printed.*

114. Return to an Order of the House of the 2nd February, 1914, for a return showing what changes have been made in the original scheme for terminals of the Transcontinental Railway at the city of Quebec; the estimated cost of the former; the estimated cost of the said terminals under the present scheme. Presented February 10, 1914 *Mr. Graham*.....*Not printed.*

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114*a*. Return to an Address to His Royal Highness the Governor General of the 23rd February, 1914, for a copy of all correspondence between the National Transcontinental Railway Commissioner and the Minister of Railways, and between the National Transcontinental Railway Commissioner and the Canadian Pacific Railway regarding the Joint Terminals at Quebec; also a copy of the Order in Council regarding joint terminals at Quebec, and of the final agreement regarding same. Presented March 16, 1914.—*Mr. Graham.* *Not printed.*

114*b*. Return to an Order of the House of the 16th March, 1914, for a copy of all contracts by the Department of Railways or the Transcontinental Railway Commission with the Canadian Pacific Railway Company with regard to the establishment of a joint station at the Palais, city of Quebec, and of all correspondence with regard to the same. Presented March 20, 1914.—*Sir Wilfrid Laurier*.....*Not printed.*

115. Return to an Order of the House of the 9th December, 1912, for a return showing the number of commissioners appointed by the Government since October 10, 1911, to hold investigations, giving their names, the amount paid to each commissioner up to November 21, 1912, the number of the said commissioners still under pay, with their names. Presented February 10, 1914.—*Mr. Murphy*.....*Not printed.*

116. Return to an Order of the House of the 31st March, 1913, for a copy of all papers, documents, correspondence, &c., relating to requests for the temporary suspension of the application of the dumping clause of the Customs Tariff Act in reference to wire rods or any other products or articles, made to Department of Customs, or the Department of Finance, since November 1, 1911. Presented February 10, 1914.—*Mr. Maclean (Halifax)* .....*Not printed.*

117. Return to an Order of the House of the 20th January, 1913, for a copy of all proposals, offers, agreements, reports, estimates, letters, telegrams and of all other communications or documents in the possession of the Department of Railways and Canals, or of the Prime Minister of Canada, or of any other department of the Government, filed with said department or any of them, since the first day of January, 1910, relating to or in any way appertaining to the question or proposal of acquiring any or all, or any one of the lines of railways connecting with the Intercolonial Railway along its line, and serving as a feeder or feeders of said railway, either by lease, purchase or otherwise, also of all proposals, offers, requests, applications, petitions, memorials, or other documents, and of all letters, telegrams and other communications and correspondence, relating to or in any manner appertaining to the acquisition by any Railway company of running rights, so called, or the securing of a leasehold or other interest involving the rights by any Railway company to operate its trains over the rails of the Intercolonial Railway, together with a copy of all answers, letters, telegrams, correspondence and reports relating thereto, on the files of the Department of Railways and Canals, or of the Prime Minister, or of any Department of the Government. Presented February 10 1914.—*Mr. Emmerson* .....*Not printed.*

117*a*. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, memorials, petitions, engineers' reports and other documents exchanged by or on behalf of the proprietors of the Quebec Oriental Railway and the Atlantic, Quebec and Western Railway, and the Department of Railways and Canals, since last session, with the view of the acquisition by the Government of these roads as branch lines or feeders of the Intercolonial Railway. Presented March 6, 1914.—*Mr. Marcil (Bonaventure).* *Not printed.*

117*b*. Return to an Order of the House of the 9th February, 1914, for a copy of all letters, telegrams, petitions, reports, evorrespondence and other documents on file in any Department of the Government, or in the possession of any member of the Government, relating to, or in any manner connected with, the proposal to have a spur line or siding to connect the new public wharf at Sackville, N.B., with the Intercolonial Railway at that place, and of all letters, telegrams and other correspondence passed between any person or persons and any member of the Government. Presented March 11, 1914.—*Mr. Emmerson* .....*Not printed.*

117*c*. Return to an Order of the House of December 9, 1912, for a copy of the report made by Mr. Tessier to the Department of Railways and Canals on a proposed line of railway from Orangedale to Cheticamp in the County of Inverness, N.S.; and also all petitions, memorials and correspondence referring to the proposed line of railway. Presented March 17, 1914.—*Mr. Chisholm (Antigonish)*.....*Not printed.*

117*d*. Return to an Order of the House of the 23rd March, 1914, for a copy of all petitions, correspondence, engineers' reports of surveys and of all other reports on file, referring to a proposed diversion of the Intercolonial Railway from, at or near Linwood Station, through the districts of Linwood, Cape Jack and to village of Harbour au Bouché; and more particularly of the petitions and reports relating to such diversion filed in or about the years 1887 and 1891. Presented April 7, 1914.—*Mr. Chisholm (Antigonish).* *Not printed.*

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117e. Return to an Order of the House of the 23rd March, 1914, for a return showing the names of the successful contractors, with the particulars of their schedule prices respectively, on the contracts awarded by the Intercolonial Railway for the work of double tracking from Chaudiere Curve to St. Romuald, Quebec, and the division line from Nelson to Derby Junction, New Brunswick, and the division or spur line from North Sidney to Leitche's Creek, Nova Scotia, with a copy of the reports, correspondence and recommendations relating to the awarding of said tenders or contracts respectively, and also showing the estimate of cost of said works respectively. Presented April 15, 1914.—*Mr. Emmerson* ..... *Not printed.*

117f. Return to an Order of the House of the 16th March, 1914, for a copy of all memoranda, instructions and authorizations issued by the Minister of Railways and Canals since October 11, 1911, relating to the eliminating of the present grades and replacing the light bridges with heavier steel structure on the Intercolonial Railway; and of all memoranda, recommendations and reports made by Mr F P Gutelius or the Board of Management of the Intercolonial Railway thereon. Presented May 6, 1914.—*Mr. Kyte.*
Not printed.

118. Memorandum of special claim on behalf of Prince Edward Island in respect to representation in the House of Commons. Presented by Hon Mr Foster, February 10, 1914.
Printed for distribution and sessional papers.

118a. Memorandum on behalf of Nova Scotia, New Brunswick and Prince Edward Island, claiming the right to have their original representation in the House of Commons restored. Presented by Hon. Mr Foster, February 10, 1914
Printed for distribution and sessional papers.

119. Copy of the proceedings and resolutions adopted at the last Interprovincial Conference. Presented by Hon. Mr. Foster, February 10, 1914.
Printed for distribution and sessional papers.

119a. Minutes of the Proceedings in Conference of the representatives of the Provinces, October, 1913. Presented by Hon Mr Borden, March 11, 1914..... *Not printed.*

120. Return to an Order of the House of the 2nd June, 1913 for a copy of the application of Pacifique Leroux for damages sustained by removal of a bridge on the Soulanges Canal, and of all reports and correspondence on the same. Presented February 12, 1914.—*Sir Wilfrid Laurier* ..... *Not printed.*

121. Return to an Order of the House of the 20th January, 1913, for a copy of all plans, proposals, diagrams, specifications, reports, surveys, reports, correspondence, letters, telegrams and of all other communications and documents in possession of the Department of Railways and Canals relating or in any wise appertaining to the proposed steam ferry service for all seasons of the year between the mainland of New Brunswick, or of Nova Scotia, and Prince Edward Island, whereby a connection could be made between the Intercolonial Railway and the Prince Edward Island Railway, by the transfer of railway cars over and across the waters of the Straits of Northumberland by means of said proposed ferry, together with a statement of all estimates and figures as to the total cost of the installation of such ferry, and the items of said estimate or estimates in detail. Presented February 12, 1914.—*Mr. Emmerson*.....*Not printed.*

121a. Return to an Order of the House of the 11th December, 1912, for a copy of all letters, telegrams and other documents relative to the establishment of a car ferry between Prince Edward Island and the mainland, of the report or reports of any engineers or experts in regard to the said proposal, and of their estimates of the cost thereof, the advertisement calling for tenders therefor, and a copy of any plans, conditions or proposed specifications thereon, or in regard thereto, and of any tenders received in response to said advertisement, of the reports, if any, of any officials in regard thereto, and of all data in possession of the Department in respect of said project. Presented February 12, 1914.—*Mr. MacDonald* ..... *Not printed.*

122. Return to an Order of the House of the 2nd February, 1914, for a return showing the total amount of liability in the form of temporary loans on the last day of each month during the period between the 1st day of May, 1913, and December 31, 1913, together with in each case, the rate of interest paid upon said amounts during the same periods. Presented February 12, 1914.—*Mr. Maclean (Halifax)*..... *Not printed.*

123. Report of the Royal Commission appointed to investigate the construction of the National Transcontinental Railway, together with the evidence taken and exhibits filed before the said commission. Presented by Hon. Mr. Cochrane, February 12, 1914.
Printed for distribution and sessional papers.

123a. Return to an Order of the House of the 23rd February, 1914, for a copy of the assignment by M. P. and J. T. Davis in September, 1909, of contracts numbers 16 and 17 on the National Transcontinental Railway to O'Brien, Fowler and McDougall, and of the Transcontinental Commissioner's approval thereof, in the said month of September, 1909. Presented March 4, 1914.—*Mr. Graham*.....*Not printed.*

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123*b*. Return to an Order of the House of the 18th February, 1914, for a copy of the contract with Mr. Joseph Gosselin for the locomotive and car shops at St. Malo, and of all telegrams, letters and correspondence between the Department and Mr. W. J. Press, mechanical engineer, or the chief engineer, with regard to change of the price of 85 cents per cubic yard for common excavation to the price of $2.30 per cubic yard for frozen earth. Presented March 11, 1914.—*Mr. Graham*.....*Not printed.*

123*c*. Return to an Address to His Royal Highness the Governor General of the 16th February, 1914, for a copy of all papers in any way relating to the tender, original contract, and amended contract of Mr. Joseph Gosselin for the locomotive and car shops at St. Malo, Quebec, together with a copy of the advertisements for tenders, the specifications, the contract, the amended contract, reports of engineers, recommendations to Council, Orders in Council, letters, telegrams, minutes or reports of interviews, and of all other documents referring in any way to the said contract or the amendment thereof. Presented March 11, 1914.—*Mr. Graham*.....*Not printed.*

123*d*. Return to an Address to His Royal Highness the Governor General of the 23rd February, 1914, for a copy of all correspondence in connection with the appointment of Messrs. Lynch-Staunton and Gutelius as commissioners to investigate the cost of construction of the Eastern division of the National Transcontinental Railway, and also of the Order in Council appointing them. Presented March 12, 1914.—*Mr. Graham.*
Not printed.

123*e*. Return to an Order of the House of the 23rd February, 1914, for a copy of the report of Geo. S. Hodgins, of New York, regarding the Transcona shops of the Transcontinental Railway, dated June 10, 1912. Presented March 19, 1914.—*Mr. Graham*..*Not printed.*

123*f*. Return to an Order of the House of the 23rd March, 1914, for a copy of all plans and profiles designed by the engineers, in connection with the intended construction of the Transcontinental Railway from a point called Ste. Claire, County of Dorchester, between the twentieth and thirtieth miles, east of the Quebec Bridge, going through the parishes of St. Malachie, Standon, Cranbourne , Ste. Germaine and Ste. Justine, passing through the townships of Panet, Rolette and Valois, towards Ste. Perpetue, on the 105th mile east of the Quebec bridge, and of all the information and reports on the nature of land, timber and minerals of the places through which the engineers have been, showing also how much the railway would have cost per mile had it been built in that part of the country. Presented April 7, 1914.—*Mr. Sevigny*.....*Not printed.*

123*g*. Return to an Order of the House of the 23rd March, 1914, for a copy of all correspondence, messages, petitions, and other documents in connection with the choice of a site intended for the construction of a station at the village of St. Eleuthere, on the National Transcontinental Railway. Presented April 15, 1914.—*Mr. Lapointe (Kamouraska)* .....*Not printed.*

123*h*. Return to an Order of the House for a return showing.—

1. What kind of coaling plants have been provided on the National Transcontinental Railway?
2. How many have been provided?
3. Where they have been constructed?
4. If any tenders were called for them?
5. The name and address of the lowest tenderer.
6. From whom they were obtained and at what price? Presented April 15, 1914. —*Mr. Macdonald* .....*Not printed.*

124. Return to an Address to His Royal Highness the Governor General, of the 2nd February, 1914, for a copy of all decisions of the Board of Railway Commisioners made on or after the 10th of October, 1911, on which appeals have been taken to the Governor in Council, and of all decisions given by the Governor in Council on such appeals. Presented February 13, 1914.—*Mr. Sinclair*.....*Not printed.*

125. Return to an Order of the House of the 2nd February, 1914, for a copy of all rules and regulations made and passed by the Board, with the approval of the Minister, under the provisions of the Intercolonial and Prince Edward Island Railways Employees' Provident Fund Act, pursuant to section eight of said Act. Presented February 13, 1914.—*Mr. Emmerson* .....*Not printed.*

125*a*. Return to an Order of the House of the 2nd February, 1914, for a return showing in detail the transactions and proceedings of the so-called Provident Fund Board from the 1st day of January, A.D., 1912, to date, with the names of applicants and their addresses and the nature of their employment, for retirement under the provisions of The Intercolonial and Prince Edward Island Railways Employees' Provident Fund Act, and a statement of the names so retired during that period, showing the amount of their respective retiring allowances, their respective terms of service, their respective ages, and the total of the fixed yearly charges upon the said fund made thereby; together

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with a copy of all correspondence, letters, documents and other communications relating to such applications and retirements on file in the Railway Department either at Moncton or at Ottawa, and of all correspondence, letters, petitions or other communications addressed to and received by the Minister of Railways and Canals, the Department, or any official thereof, or any member of the Government from any member of Parliament, or other person charged with the responsibility of directing Government or railway patronage, or from any person or persons, club or association assuming to advise or direct with respect to any such patronage, and of all replies made to any such letters, petitions or other communications. Presented March 3, 1914. *Mr. Emmerson* ..... *Not printed.*

126. Return to an Order of the House of the 2nd February, 1914, for a return showing the amounts of receipts and expenditures on the Intercolonial Railway during the months of April, May and June, of 1913, respectively, giving separately the revenue from passenger trains, freight traffic, mails and express and miscellaneous revenue, respectively, with the total thereof during that period; also the same information respecting the corresponding months of 1912, with the total thereof for that period. Also a statement showing the working expenses or expenditure during months of April, May and June of 1913, respectively, giving separately the working expenses or expenditure on maintenance of way and structures, maintenance of equipment, traffic expenses, transportation expenses and general expenses; with the total thereof during that period; and also the same information respecting the corresponding months of 1912, with the total thereof for the same period; also a statement showing the cost of transporting freight per ton mile during the period named in the years 1912 and 1913. Presented February 13, 1914.—*Mr. Emmerson* ..... *Not printed.*

126*a*. Return to an Order of the House of the 11th March, 1914, for a return showing the total revenue of the Intercolonial Railway during the fiscal year 1912-1913, and the revenue from Campbellton and all stations east of Campbellton, and from those west thereof as far as Halifax, on the main line, including the branches east of Campbellton, Prince Edward Island Railway excluded. Presented March 17, 1914.—*Mr. Boulay.* *Not printed.*

126*b*. Return to an Order of the House of the 2nd February, 1914, for a return showing the total earnings of the Intercolonial Railway on Division 3 in connection with passenger traffic for the calendar years 1910, 1911, 1912 and 1913 respectively and the monthly passenger traffic earnings for each of the said years, the total expenses or expenditures connected with the said passenger traffic on said division during the said years respectively; together with a statement showing the monthly passenger traffic expenses or expenditures connected with said passenger traffic for each of the months during the said years; and showing, in addition, the loss and surplus for each of said years and the months thereof respectively, in connection with the passenger traffic on said division 3 between St. John and Halifax; also a statement of the revenue and expenditures on the transactions connected with said passenger traffic over said division during the months of December, 1913, and January, 1914, separately; and also a statement showing the gross passenger earnings for December, 1912, and January, 1914, respectively, and the gross expenditures with the passenger traffic for the said months respectively; together with a copy of all reports, returns, letters and correspondence relating to the earnings, expenditures or losses or surpluses on said division either in connection with freight or passenger traffic. Presented April 7, 1914. *Mr. Emmerson* ..... *Not printed.*

127. Return to an Order of the House of the 2nd February, 1914, for a return showing the names of the employees of all kinds on the Soulanges Canal in the section extending from the foot of the canal to the first bridge; with the functions of each of them, the salary thereto attached and the date of their hiring during the season of navigation. Presented February 13, 1914.—*Mr. Boyer* ..... *Not printed.*

128. Return to an Order of the House of the 3rd February, 1914, for a return showing:—

1. The names of all persons from whom land or property has been expropriated for right of way and station purposes in connection with the Dartmouth to Dean Settlement Branch of the Intercolonial Railway of Canada.

2. The quantity of land or property so expropriated.

3. The amount paid or offered to such person or persons for such land or property, in cases where payment or an offer has been made. Presented February 13, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

129. Copy of the International Convention for the safety of human life at sea. Presented by Hon. Mr. Hazen, February 16, 1914..... *Printed for distribution and sessional papers.*

129*a*. Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of all correspondence with the Imperial authorities, or any commercial bodies, on the subject of Safety of Life at Sea; and of the Order in Council appointing representatives of Canada on the International Conference on Safety of Life at Sea. Presented February 20, 1914.—*Sir Wilfrid Laurier* ..... *Not printed.*

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130. Return to an Order of the House of the 9th February, 1914, for a copy of all accounts, bills, receipts and vouchers in connection with the services of N. W. White, during 1912 and 1913, as commissioner to inquire into Indian lands in the Province of British Columbia. Presented February 17, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

131. Return to an Order of the House of the 2nd February, 1914, for a copy of all documents whatsoever relating to the investigation of a claim of Jean Ross or Joseph Ross, of Anqui, County of Rimouski, Province of Quebec, against the Intercolonial Railway, following an accident to a horse, which occurred on the 10th of December, 1906. Presented February 17, 1914.—*Mr. Boulay*.....*Not printed.*

132. Copy of the Order in Council appointing a commission to investigate the cost of living. Presented February 17, 1914.—*Sir Wilfrid Laurier*.....*Not printed.*

133. Statement of the population of Canada and its Provinces and Territories in the years 1871, 1881, 1891, 1901 and 1911, according to the census returns. Presented by Hon. Mr. Borden, February 17, 1914.....*Not printed.*

134. Return to an Order of the House of the 9th February, 1914, for a copy of all protests, if any, by the Grand Trunk Pacific Railway Company, against changes in grades of the National Transcontinental Railway from Winnipeg eastward, and terminal facilities at Quebec; of all subsequent approvals of such changes, if any, by the Grand Trunk Pacific Railway Company, and of all correspondence on the above subject. Presented February 18, 1914.—*Sir W. Laurier*.....*Not printed.*

135. Copy of Second Interim Report of the Royal Commission on the natural resources, trade and legislation of certain portions of His Majesty's Dominions, together with the Minutes of Evidence taken in Australia and New Zealand in 1913, in connection therewith. Presented by Hon. Mr. Foster, February 18, 1914.....*Not printed.*

136. Return to an Order of the Senate dated 27th January, 1914, for a copy of the Annual Report made in January, 1913, by the Central Railway Company to the Railway Department.—(*Senate*) .....*Not printed.*

137. Return to an Order of the Senate dated 27th January, 1914, for a copy of the Annual Report made by the Salisbury and Albert Railway Company to the Railway Department.—(*Senate*) .....*Not printed.*

138. Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence and documents in reference to the matter submitted to Sir William Whyte by the Government, the Transcontinental Commission or the commission appointed to investigate the construction of the National Transcontinental Railway, between the Government or any member or official thereof, and any official of the Grand Trunk Pacific Railway Company; and also of all correspondence between any member or official of either the above named commissions and the Justice Department, concerning the said matter. Presented February 19, 1914.—*Mr. Graham*.....*Not printed.*

139. Return to an Order of the House of the 16th February, 1914, for a return showing the names, salaries and grades of the private secretaries of the members of the Liberal Government on October, 1911; the names of the private secretaries employed from time to time by the members of the present Government, and the salary and grade of each. Presented February 19, 1914.—*Mr. Murphy*.....*Not printed.*

140. Return to an Order of the House of the 9th February, 1914, for a return showing how many woollen industries are operated in the country; where situated, in which province, and in what city, town or village; the number of hands employed in each, and the output for each during 1913. Presented February 19, 1914.—*Mr. Verville.*
Not printed.

141. Return to an Order of the House of the 2nd February, 1914, for a return showing the number, location, and mileage of rural mail routes established in Bonaventure County from October, 1911, to date, if any; together with a copy of all applications, memorials, reports and correspondence generally on this matter. Presented February 23, 1914.—*Mr. Marcil (Bonaventure)* .....*Not printed.*

141*a*. Return to an Order of the House of the 2nd February, 1914, for a return showing a tabulated statement of the number of rural mail delivery routes opened since 1911, including the number of boxes used; also the new mail delivery contracts necessitated by the establishment of said routes in each county, not already moved for. Presented February 23, 1914.—*Mr. Lemieux*.....*Not printed.*

141*b*. Return to an Order of the House of the 19th February, 1914, for a return showing the number of rural mail delivery routes which have been established in Nova Scotia, and their names; and if any of the routes are provided with a daily service. Presented March 2, 1914.—*Mr. Sinclair*.....*Not printed.*

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141c. Return to an Order of the House of the 18th February, 1914, for a copy of all documents, petitions, letters, telegrams, &c., exchanged between any one and the Post Office Department, in connection with the establishing of a rural mail service in the Parish of Ste. Marguerite de Blairfindie, County of St. Johns and Iberville, and of all documents, letters and telegrams, &c., relating to the contracts for the conveyance of rural mail in said parish. Presented April 29, 1914.—*Mr. Demers*.....*Not printed.*

141d. Return to an Order of the House of the 20th April, 1914, for a return showing:

1. Whether the rural postal delivery service has been started in the County of Quebec? If so, when and in what parishes of said county?

2. Whether public tenders have been advertised for such service? If so, when, how many were received and from whom, the amount of each tender, and what tender was accepted?

3. The price of the accepted tender, the name of the tenderer, the condition or conditions of payment, and the length of the contract. Presented April 30, 1914.—*Mr. Lachance* .....*Not printed.*

141e. Return to an Order of the House of the 6th April, 1914, for a copy of all letters, petitions and documents relative to the establishment of a rural mail delivery route from New Glasgow through Mount William, Granton and Abercrombie, County of Pictou. Presented May 8, 1914.—*Mr. Macdonald* .....*Not printed.*

141f. Return to an Order of the House of the 4th March, 1914, for a copy of all correspondence, telegrams, petition, recommendation and other documents relating to the establistment of the rural mail service in the parish of St. Theodore d'Acton. Presented May 16, 1914.—*Mr. Marcil (Bonaventure)* .....*Not printed.*

141 (g). Return to an Order of the House of the 11th February, 1914, for a copy of all petitions, letters, telegrams and other papers relative to the establishment of rural mail delivery routes in the County of Pictou since January 1, 1912, together with the number of said routes, the carriers on each route, the tenders received in each case for the service, a copy of the correspondence in relation to said tenders and their acceptance, and the post offices closed or to be closed as the result of the establishment of said routes. Presented June 12, 1914.—*Mr. Macdonald*.. .. ..*Not printed.*

142. Return to an Order of the House of the 2nd February, 1914, for a return showing what new post offices have been established in the County of L'Islet since 1911; the names of the officer in charge of each of them; the revenue brought; the expenses incurred by these offices, including the salary and fees of the postmaster and charges for the conveyance of the mails; if these offices have been asked for by petitions of the interested ratepayers, and if so, by whom; the quantity of letters and other postal matters that have passed through each of these offices since they have been established. Presented February 23, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*

142a. Return to an Order of the House of the 31th March, 1914, for a copy of all documents, papers, petitions, correspondence, reports, &c., in connection with the opening of a post office under the name of Glasson in the parish of St. Aubert, County of L'Islet. Presented April 22, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*

143. Return to an Order of the House of the 2nd February, 1914, for a return showing the names and addresses, with rank or occupation, of all persons who accompanied the Minister of Militia and Defence to the Old country and Europe during the summer of 1913, and whose expenses were paid wholly or in part by the Dominion Government, or who were paid salary or allowance during such time, with the amount paid to each person. Presented February 23, 1914.—*Mr. Carvell*.....*Not printed.*

144. Return to an Order of the House of the 11th February, 1914, for a copy of all correspondence, telegrams and other papers to be found in the Department of the Naval Service in connection with the death and burial, at Montreal, of Joseph LeBlanc, a sailor on D.G.S. *Canada*. Presented February 23, 1914.—*Mr. Sinclair*..*Not printed.*

145. Return to an Order of the House of the 2nd February, 1914, for a copy of all tenders received for the construction of a salmon hatchery on Nipisiguit river, Gloucester County, N.B., and of the contract awarded. Presented February 23, 1914. *Mr. Turgeon* .....*Not printed.*

146. Return to an Order of the House of the 9th April, 1913, for a copy of all correspondence, telegrams, petitions, affidavits, certificates, reports, complaints and other documents, relating to the resignation of Mr. M. C. Blais, recruiting officer of the Department of Marine and Fisheries from the Government shipyards at St. Joseph de Sorel, and to the appointment of Mr. F. P. Vanasse to this office. Presented February 23, 1914.—*Mr. Cardin* .....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

147. Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, letters, telegrams, and other documents relating to industrial disputes during the year 1913, between the operators and employees of any of the companies operating coal mines on Vancouver Island, and disturbances arising out of the same; and of any correspondence, either before or since the year 1913, with respect to any of the said disputes. And in particular of all correspondence, letters, telegrams, and other documents to or from the Prime Minister, the Honourable the Minister of Labour or any of the officers of the Department of Labour, respecting attempts at conciliation in connection with these disputes, and to or from the Honourable the Minister of Militia, or any officers of the Department of Militia and the Honourable the Minister of Justice, or any officers of the Department of Justice, respecting the calling out and services of the militia in connection with said disputes; and a statement of the arrests made and of convictions, if any, for infringement of the laws. Also a copy of the evidence taken and reports of investigations made by the Honourable the Minister of Labour, Mr. Samuel Price, Commissioner appointed by the Department of Labour, and of the Deputy Minister of Labour; together with a detailed statement of the expenses of all such investigations and expenses otherwise incurred by any of the Departments of the Government in consequence of said disputes or difficulties arising out of same. Presented February 23, 1914.—*Sir W. Laurier*.....*Not printed.*

147*a*. Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of all correspondence, letters, telegrams and reports that have been exchanged between the Government and the strikers and operators of coal mines in British Columbia since the beginning of the strike until the present; also a copy of all Orders in Council in connection with said strike. Presented February 23, 1914. *Mr. Verville* .....*Not printed.*

147*b*. Supplementary Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, letters, telegrams, and other documents relating to industrial disputes during the year 1913, between the operators and employees of any of the companies operating coal mines on Vancouver Island, and disturbances arising out of the same; and of any correspondence, either before or since the year 1913 with respect to any of the said disputes. And in particular of all correspondence, letters, telegrams, and other documents to or from the Prime Minister, the Honourable the Minister of Labour or any of the officers of the Department of Labour, respecting attempts at conciliation in connection with these disputes, and to or from the Honourable the Minister of Militia, or any officers of the Department of Militia and the Honourable the Minister of Justice, or any officers of the Department of Justice, respecting the calling out and services of the militia in connection with said disputes; and a statement of the arrests made and of convictions if any, for infringement of the laws. Also a copy of the evidence taken and reports of investigations made by the Honourable the Minister of Labour, Mr. Samuel Price, Commissioner appointed by the Department of Labour, and of the Deputy Minister of Labour; together with a detailed statement of the expenses of all such investigations and expenses otherwise incurred by any of the Departments of the Government in consequence of said disputes or difficulties arising out of same. Presented February 24, 1914.—*Sir Wilfrid Laurier*.....*Not printed.*

148. Regulations, approved by Order in Council ,dated the 19th day of January, 1914, for the disposal of petroleum and natural gas rights, the property of the Crown in Manitoba, Saskatchewan, Alberta, the Northwest Territories, the Yukon Territory, the Railway Belt in the Province of British Columbia, and within the tract containing three and one-half (3½) million acres of land acquired by the Dominion Government from the Province of British Columbia, and referred to in subsection (*b*) of section 3 of the Dominion Lands Act. Presented by Hon. Mr. Roche, February 23, 1914.
Not printed.

149. Regulations in regard to grazing leases of vacant Dominion lands, &c. Presented by Hon. Mr. Roche, February 23, 1914.....*Not printed.*

150. Return to an Order of the House of the 9th February, 1914, for a return showing the amounts in detail paid to Ward Fisher, of Shelburne, N.S., fishery inspector, for the years 1912 and 1913 for salary, office expenses, travelling expenses, and all other expenses. Presented February 24, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

151. Return to an Order of the House of the 2nd February, 1914, for a copy of the report of operations at the fishery hatchery at Port Daniel West, for the year 1913. Presented February 24, 1914.—*Mr. Marcil (Bonaventure)* .....*Not printed.*

152. Return to an Order of the House of the 18th February, 1914, for a copy of all correspondence, investigations or other documents respecting the loss of a horse killed on the Intercolonial, on the 10th of September last, the property of Johnny Roy, of Amqui. Presented February 24, 1914.—*Mr. Boulay*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

153. Return to an Order of the House of the 16th February, 1914, for a return showing the increase in freight rates on live-stock, including horses, carried over the Intercolonial Railway, by the tariff effective May 1, 1913, as compared with the tariff effective April 15, 1909, for the following distances, respectively:—

Over	5	and not over		10	miles.
"	10	"	"	15	"
"	15	"	"	20	"
"	20	"	"	25	"
"	25	"	"	30	"
"	30	"	"	40	"
"	40	"	"	50	"
"	50	"	"	60	"
"	60	"	"	70	"
"	70	"	"	80	"
"	80	"	"	90	"
"	90	"	"	100	"
"	100	"	"	110	"
"	110	"	"	120	"
"	120	"	"	130	"
"	130	"	"	140	"
"	140	"	"	150	"
"	150	"	"	160	"

Presented February 21, 1914.—*Mr. Kyte*.....*Not printed.*

154. Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, letters, telegrams, and other documents relative to the report and recommendations of the Board appointed under the Combines Investigation Act to investigate the methods adopted by the United Shoe Machinery Company. Presented February 24, 1914.—*Sir Wilfrid Laurier*.....*Not printed.*

155. Return to an Address to His Royal Highness the Governor General of the 2nd February, 1911, for a copy of memorandum of agreement between the Canadian Government railways and the Canadian Pacific Railway Company, covering the transportation of freight and passengers between Halifax and St. John over the Intercolonial Railway, in connection with the Canadian Pacific and Allan Line Steamships, carrying British mails, making Halifax the terminal port; also of all agreements, Orders in Council, petitions, memorials, regulations or orders of the Department of Railways and Canals, or of any officer or officers of the Intercolonial Railway; of letters or other correspondence, interviews with the Prime Minister and other member or members of the Government, and representations to the Prime Minister, or other member or members of the Government, in any manner relating to the said memorandum of agreement; and of all telegrams and letters received by the Government, or any member thereof, or sent by them, either in reply or otherwise; also of all letters, telegrams, representations or other documents relating to the said agreement or in any way connected therewith, received by E. P. Gutelius, the General Manager of the Intercolonial Railway, from the Canadian Pacific Railway, or from any corporation, persons or body, or sent by him, in reply thereto or otherwise, to the said Canadian Pacific Railway or to any other corporation, body or person. Presented February 21, 1911.—*Mr. Emmerson*..*Not printed.*

156. Return to an Address to His Royal Highness the Governor General of the 9th February, 1911, for a copy of all Orders in Council since the 1st of June last in any way altering the rates of duties existing under the Customs Act. Presented February 21, 1914.—*Sir Wilfrid Laurier*.....*Not printed.*

157. Correspondence, statements, &c., in respect to certain proposed advances to the Harbour Commissioners of Montreal, for expenditure during the years 1914, 1915, 1916 and 1917. Presented by Hon. Mr. Hazen, February 27, 1914.....*Not printed.*

158. Memorandum of proposed harbour improvements to be made by the Harbour Commissioners of Quebec during 1914, out of certain proposed advances to be made to the said commission. Presented by Hon. Mr. Hazen, February 27, 1914.....*Not printed.*

159. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, correspondence, telegrams, &c., between the Department of Trade and Commerce and any person or persons, companies or corporations, in the years 1912 and 1913, respecting a steamship service between St. John, N.B., and Bear River, N.S., and intermediate points, and the matter of the payment of a subsidy therefor. Presented March 2, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

160. Return to an Order of the House of the 2nd February, 1914, for a copy of the reports made by the proprietors of the steamer *Canada*, on which the subsidy was paid to them for the season of 1913, for the service between Campbellton, N.B., and Gaspé, Que.; together with a copy of all complaints regarding the said service and of the correspondence, reports and documents in the possession of the Department of Trade and Commerce in that connection in the said year. Presented March 2, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

161. Return to an Order of the House of the 4th February, 1914, for a return showing what sum or sums of money, if any, have been expended by the Government since the 21st of September, 1911, in the County of Wright, Quebec, and how such money has been expended. Presented March 2, 1914.—*Mr. Devlin*.....*Not printed.*

162. Return to an Order of the House of the 26th February, 1914, for a return showing:—

1. How many temporary clerks were employed in the Library of Parliament during the Sessions of 1911-1912 and 1912-1913, their names and the salary paid to each for such service, and the total so paid?

2. How many temporary clerks are at present so employed, their names and salaries respectively?

3. If any temporary clerks were employed in said library, during the Session of 1910-1911; if so, how many?

4. What was the then number of permanent clerks in the library, and the present number of temporary clerks employed in said library?

5. Why temporary clerks are employed in said library in positions superior to and at higher pay than that paid to permanent clerks? Presented March 3, 1914.—*Mr. Turgeon* .....*Not printed.*

163. Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of all correspondence, telegrams, memoranda, Orders in Council, instructions to officers, regulations and other papers and documents relating to a change in the regulations governing the fishing of salmon in the St. John River, above tidal water. Presented March 3, 1914.—*Mr. Sinclair*.....*Not printed.*

164. Return to an Order of the House of the 2nd February, 1914, for a copy of all letters, telegrams and correspondence in any way relating to the appointment of men in any way connected with the salmon fishing pond at Margaree during the year 1913. Presented March 3, 1914.—*Mr. Chisholm (Inverness)* .....*Not printed.*

165. Return to an Order of the House of the 2nd February, 1914, for a copy of all tenders received in 1912 for the construction of a breakwater at Green Point, Gloucester County, N.B., and of all correspondence, letters and telegrams showing why the contract was not awarded to lowest tenderer. Presented March 3, 1914.—*Mr. Turgeon*..*Not printed.*

166. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, letters, telegrams, &c., touching in any way the work done on Lingan Beach, South Cape Breton, under Superintendent H. D. McLean. Presented March 3, 1914.—*Mr. Carroll* .....*Not printed.*

167. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, advertisements, tenders, bids, contracts, reports, vouchers, accounts, receipts, correspondence, &c., in connection with a wharf recently constructed at Gold River, Lunenburg County, N.S. Presented March 3, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

168. Return to an Address to His Royal Highness the Governor General, of the 9th February, 1914, for a copy of all documents, Orders in Council, correspondence, telegrams, tenders, accounts, vouchers, part, &c., in connection with the construction of a bridge or work between the mainland and an island, known as Boutilier's island, at South West Cove, Lunenburg County, N.S. Presented March 3, 1914.—*Mr. Maclean (Halifax)*..*Not printed.*

169. Return to an Order of the House of the 9th February, 1914, for a copy of all advertisements, tenders, contracts, documents, letters and correspondence relating to the supply of coal for the Government public buildings at Lunenburg, N.S. Presented March 3, 1914.—*Mr. Macdonald* .....*Not printed.*

170. Return to an Order of the House of the 2nd February, 1914, for a comparative statement of the quantity of cubic yards of dredging done by the *Restigouche*, or dredge *No. 3*, on the outside bar of Bathurst Harbour, during the seasons of 1910, 1911, 1912 and 1913. Presented March 3, 1914.—*Mr. Turgeon*.....*Not printed.*

170a. Return to an Order of the House of the 2nd February, 1914, for a copy of all tenders received for the dredging in Bathurst Harbour, and of the contract awarded. Presented March 3, 1914.—*Mr. Turgeon*.....*Not printed.*

170b. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, letters and telegrams relating to the deposit of sand and mud dumped into the southwestern channel by the contractors of dredging in Bathurst Harbour. Presented March 3, 1914.—*Mr. Turgeon*.....*Not printed.*

171. Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of all correspondence, telegrams, petitions and memorials received by the Right Honourable R. L. Borden, Premier of Canada, or the Minister of Railways and Canals, from J. A. Gillies, Esq., Sydney, N.S., or from any resident of the County of Richmond, N.S., relative to the purchasing of the Cape Breton Railway by the Government and the building of a line of railway from St. Peters to Sydney and Louisburg, and of replies thereto. Presented March 3, 1914.—*Mr. Kyte*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

172. Return to an Order of the House of the 2nd February, 1914, for a return showing:—

1. The names of all proprietors from whom land and property have been expropriated for the purpose of the Halifax Ocean Terminals hetween Three Mile House and the proposed site of the railway and shipping terminals?

2. The price or amount of damages pald therefor, or the amount offeerd and accepted in the case of each proprietor?

3. The amount offered or tendered each proprietor for damages and which has not been accepted.

4. The quantity of land and nature of property so expropriated from each proprietor. Presented March 3, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

172a. Return to an Order of the House of the 2nd February, 1914, for a copy of all advertisements, tenders, papers, documents, letters and correspondence relating to the construction of the railway from Three Mile House at Bedford Basin to Halifax Harbour, and also to the piers or wharfs and sea walls in connection with the proposed Halifax Ocean Terminals. Presented March 16, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

173. Return to an Order of the House of the 2nd February, 1914, for a copy of all agreements, correspondence, papers and documents referring to any arrangement made between the Intercolonial Railway of Canada and the Canadian Pacific Railway in the year 1913, relating to the hauling of Canadian Pacific Railway freight and passenger trains between St. John and Halifax, connecting with any transatlantic steamship lines at Halifax, during the winter season of 1913-14. Presented March 4, 1914.—*Mr. Maclean (Halifax)* .....*Not printed.*

174. Return to an Order of the House of the 20th January, 1913, for a copy of all recommendations, correspondence, letters, telegrams and reports now on file in the Department of Justice, relating to the vacancy in the office of deputy warden of the Dorchester penitentiary, and the appointment of a successor to Mr. A. B. Pipes, who was promoted from the position of deputy warden of Dorchester penitentiary to that of warden. Presented March 4, 1914.—*Mr. Emmerson* .....*Not printed.*

175. Correspondence between the City of Ottawa and the Government, on the subject of a pure water supply for the city and Government buildings. Presented by Hon Mr. Borden, March 4, 1914.....*Not printed.*

176. Return to an Order of the House of the 2nd February, 1914, for a copy of all letters, correspondence, telegrams and all other documents between the Department of Railways and Canals and Archer, Macdonald, E. Montpetit, C. A. Harwood, and A. Marcean, local engineer, St. Amour, Superintendent of the Canal of Soulanges, L. A. Sauvé, and others, respecting the tearing down of several houses and dependencies erected on the Government grounds at Pointe Cascades, the property of the said L. A. Sauvé. Presented March 5, 1914.—*Mr. Boyer* .....*Not printed.*

177. Return to an Order of the House of the 23rd February, 1914, for a copy of all agreements between the Transcontinental Railway Commission and the Canadian Northern Railway for the use of the line of the said company by the trains of the Transcontinental Railway from Cap Rouge to the shops at St. Malo. Presented March 5, 1914.—*Sir Wilfrid Laurier* .....*Not printed.*

178. Return to an Order of the House of the 23rd February, 1914, for a copy of all correspondence between the Minister of Railways or the Transcontinental Railway Commission and the Quebec Harbour Commission, with regard to the construction by the said Harbour Commission of a line of railway to connect the said Transcontinental Railway from Champlain Market with the proposed Union Station at the Palais, and of all contracts by the said Harbour Commission towards that end. Presented March 5, 1914.—*Sir Wilfrid Laurier* .....*Not printed.*

179. Return to an Order of the House of the 9th February, 1914, for a copy of all advertisements, tenders, contracts and correspondence in connection with the proposed New London Branch of the Prince Edward Island Railway. Presented March 5, 1914.—*Mr. Graham* .....*Not printed.*

180. Return to an Order of the House of the 4th February, 1914, for a return showing the total amount of available cash on deposit to the credit of the Government of Canada on the last day of each month between April 1, 1913, and December 31, 1913. Presented March 5, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

181. Return to an Order of the House of the 4th February, 1914, for a return showing the following particulars respectively, of all loans placed or extended by the Government of Canada, upon the London market during the calendar years 1912 and 1913: Loan, date and copy of prospectus; price in prospectus and price realized; date on which loan matures; rate per cent; total issue; amount realized; charges including discount for immediate payments, &c.; net amount of cash realized; and the annual effective rate of interest per unit. Presented March 5, 1914.—*Mr. Maclean (Halifax)*....*Not printed.*

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182. Return to an Order of the House of the 9th February, 1914, for a return showing the number of farm labourers and public servants respectively, placed by the Government employment agents during the years 1912 and 1913; also the counties where placed and amount of bonus paid. Presented March 6, 1914.—*Mr. Sutherland*.....*Not printed.*

183. Return to an Order of the House of the 26th February, 1914, for a return showing:—

1. What chartered banks in Canada have gone into liquidation since Confederation, and at what date in each case;

2. The loss in each case to the depositors, the note holders and the stockholders respectively;

3. What relief, if any, was given in each case by the Government to any of the parties suffering loss. Presented March 6, 1914.—*Mr. Neely*.....*Not printed.*

184. Return to an Order of the House of the 11th February, 1914, for a return showing the number of binders, reapers, mowers, ploughs, seeders, and cultivators exported from and imported to Canada, with their value respectively, in each of the years 1910, 1911, 1912 and 1913. Presented March 6, 1914.—*Mr. Neely*.....*Not printed.*

185. Return to an Order of the House of the 23rd February, 1914, for a return showing the number of cattle exported from Canada to the United States in the months of October, November and December, 1913, and January, 1914, and for the corresponding months in 1912 and 1913. Presented March 6, 1914.—*Mr. Maclean (Halifax)*....*Not printed.*

186. Return to an Order of the House of the 23rd February, 1914, for a return showing the quantities and varieties of fish exported from Canada to the United States in the months of October, November and December, 1913, and January, 1914, and for the corresponding months in 1912 and 1913. Presented March 6, 1914.—*Mr. Maclean (Halifax)*. *Not printed.*

187. Return to an Order of the House of the 26th February, 1914, for a return showing:—

1. Who were, from incorporation, and who are, the officers and directors of the Grand Trunk Pacific Railway Company;

2. The amount of capital stock of said company, the amount paid up, and who are the holders of such paid up stock, and the amount held, and still held, by each;

3. If this company, or a subsidiary company, has contracted to build any portion of the National Transcontinental Railway; and, if so, the total amount of their contracts for such work;

4. What portion of such contracts or work was sublet, and on such sublet contracts what profit was made by the said company. Presented March 6, 1914.—*Mr. Middlebro.* *Not printed.*

188. Report of the Board of Inquiry appointed to investigate and verify the claims of applicants for Fenian Raid Volunteer Bounty in the Province of Nova Scotia. Presented by Hon. Mr. Hughes, March 9, 1914.....*Not printed.*

188a. List of applicants, in Nova Scotia, for the Fenian Raid Volunteer Bounty whose claims have been approved.—List of Fenian Raid Volunteer Bounty applicants, in Nova Scotia, received to December 31, 1913, but not yet considered. Presented by Hon. Mr. Hughes, March 9, 1914.....*Not printed*

189. Return to an Order of the House of the 12th February, 1914, for a return showing what was the local minimum rate of freight on small parcels on the Intercolonial Railway prior to October 10, 1911, and also the present rate on the same. Presented March 9, 1914.—*Mr. Sinclair*.....*Not printed.*

190. Return to an Order of the House for a copy of all correspondence, reports, evidence taken, and of all other papers in the possession of the Minister of Railways and Canals, relating to the investigation recently held by Mr. Ferguson, M.L.A., concerning the affairs of the Trent Valley Canal. Presented March 9, 1914.—*Mr. Burnham.* *Report only printed for distribution and sessional papers.*

191. Return to an Order of the House of the 16th February, 1914, for a copy of all papers necessary to convey full information as to the charter, outfit and instructions of the *Karluk* and auxiliary vessels; the names, rank, pay and terms of engagement of their officers and crews; and of all communications received from Mr. V. Steffansson, or any other person who has received such a communication, written after the expedition sailed for the Arctic Ocean. Presented March 10, 1914.—*Mr. Oliver*.....*Not printed.*

192. Return to an Order of the House of the 2nd February, 1914, for a return showing the number of towns in the Province of Ontario which have a population larger than the town of Chesley, South Riding of Bruce, which was 1,734, according to the last census; also the number of such towns served by letter boxes on the street. Presented March 10, 1914.—*Mr. McCraney*.....*Not printed.*

193. Return to an Order of the House of the 2nd February, 1914, for a return showing the names of the promoters of the National Drop Forge Company, Limited, and the powers asked by and given to said company by letters patent. Presented March 10, 1914.—*Mr. Lemieux*.....*Not printed.*

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194. Return to an Order of the House of the 2nd February, 1914, for a return showing the names of the promoters of the Canadian Contracting Company, and the powers asked by and given to said company by letters patent. Presented March 10, 1914.—*Mr. Lemieux* ..... *Not printed.*

195. Return to an Order of the House of the 4th February, 1914, for a copy of all papers, letters, telegrams, reports, inquiries and documents or other communications had with any of the Departments of the Government, particularly with the Interior, Customs and Marine and Fisheries Departments, relating to Gustavas A. Colpitts, a Canadian citizen returning as a passenger on the Royal Mail Steamship *Empress of Britain*, in September, 1911, who alleged that he was not allowed by officers of the Government to disembark at Rimouski from said steamship. Also a copy of all letters, correspondeoce or other communications received by any members of the Government, particularly by the Minister of Marine and Fisheries, and by any Department of the Government, from the said Gustavas A. Colpitts, who was at the time a student at Mount Allison University, Sackville, New Brunswick, and of all letters or other communications sent in reply thereto. Presented March 10, 1914.—*Mr. Emmerson* ..... *Not printed.*

196. Number of Chinamen entering Canada during years 1911-12-13, &c.—(*Senate.*). *Not printed.*

197. Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, papers, plans, correspondence, memoranda and other documents relative to the shortening of distances on the Intercolonial Railway between Pictou and Port Mulgrave, and to the construction of a new bridge at Pictou in connection therewith. Presented March 12, 1914.—*Mr. Macdonald* ..... *Not printed.*

198. Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, telegrams, correspondence, leases and other documents relating to the cutting of lumber by Mr. B. F. Smith from the so-called Tobique Indian reserve, in the Province of New Brunswick, and of all recommendations with reference thereto, made by the Indian agent for that portion of the Province, or any other official of the Department in the said Province; together with a statement of the lumber cut by said Smith from said reserve, with the rates of stumpage charged and amounts paid since January 1, 1912. Presented March 12, 1914.—*Mr. Carvell* ..... *Not printed.*

198*a*. Return to an Order of the House of the 23rd February, 1914, for a copy of all correspondence, letters, telegrams, memorials, petitions, &c., relating to the sale or transfer of the Indian reserve at Sydney, N.S., and the removal of the Indians therefrom. Presented March 17, 1914.—*Mr. Kyte* ..... *Not printed.*

198*b*. Return to an Order of the House of the 23rd March, 1914, for a copy of all the instructions issued to C. P. Fullerton and Fawcett Taylor, or either of them, in reference to the St. Peter's Indian reserve. Presented April 8, 1914.—*Mr. Oliver* ..... *Not printed.*

199. Return to an Order of the House of the 11th February, 1914, for a copy of all correspondence, letters, telegrams and other documents relative to the purchase for the Intercolonial Railway of a quantity of coal in the United States, within the past few months. Presented March 12, 1914.—*Mr. Macdonald* ..... *Not printed.*

199*a*. Return to an Order of the House of the 2nd February, 1914, for a return showing:—

1. When the Intercolonial Railway and the Prince Edward Island Railway last called for tenders for its coal supply, and when the tenders were returnable?

2. The number of tenders received, the names of the tenderers, and their respective prices?

3. The date of the last contract or contracts for coal for the Intercolonial Railway, and who was the contractor or contractors respectively?

4. The names of the successful tenderers, as the result of the last call for tenders, and their prices respectively?

5. The amount in tons of the contract made with each, and at what prices per ton respectively?

6. If any coal was purchased for the Government system of railways in the United States since March 31, 1913? If so, by whom, from whom, and through whom it was purchased, and at what price, the cost per ton delivered, inclusive of commissions to the railways. Presented March 18, 1914.—*Mr. Emmerson* ..... *Not printed.*

199*b*. Return to an Order of the House for a return showing whether the Government has purchased any coal, freight or passenger cars during the past six months for the Intercolonial Railway; if so, from whom and in what quantity; the price paid in each case; if any tenders were called for the same; who the tenderers were and the amount of each tender. Presented April 6, 1914.—*Mr. Macdonald* ..... *Not printed.*

200. Return to an Order of the House of the 4th March, 1914, for a return showing the freight rates on flour, hay, oats, lumber and firewood per 100 lbs. or per ton, between Bathurst, N.B., and Nepisiguit Junction, Red Pine, Bartibogue, Beaver Brook, and between Bathurst, Berresford, Petit Rocher and Belledune, before the changes made in August, 1913, and the freight rates on the same articles, between the same points, under the new schedule of rates. Presented March 16, 1914.—*Mr. Turgeon* ..... *Not printed.*

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201. Return to an Order of the House of the 11th February, 1914, for a copy of all contracts, accounts, bills, memoranda, letters, correspondence, receipts, vouchers, bills of lading, &c., referring to all materials, provisions, supplies and goods of every description purchased and forwarded to Port Nelson during the year 1913, by any Department of the Government of Canada, and agreements for employment of workmen in connection with the construction of the Hudson Bay Railway terminals at Port Nelson. Presented March 18, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

202. Return to an Order of the House of the 9th February, 1914, for a copy of all papers, letters or other correspondence, instructions, reports, valuations, appointment of valuators, or appraisers, appraisements, abstracts of titles, deeds or other conveyances, in any Department of the Government or in the railway offices at Moncton, relating to, or in any manner connected with, the purchase by the Intercolonial Railway of a property in Moncton, N.B., at the corner of Archibald and Main streets in said city, formerly owned in his lifetime by the late P. S. Archibald, C.E., and now occupied by the General Superintendent of the Intercolonial Railway, F. P. Brady, as a residence; together with a copy of all bills, accounts and statement of expenditures for repairs made on the buildings of said property; and also of accounts, commissions and bills paid to solicitors, attorneys or other agents, for searches, conveyances, and a statement of all moneys paid for charges and expenses in connection with such purchase or the procuring of a deed of said property? Presented March 16, 1914.—*Mr. Emmerson.*
Not printed.

202*a*. Supplementary Return to an Order of the House of the 9th February, 1914, for a copy of all papers, letters or other correspondence, instructions, reports, valuations, appointment of valuators, or appraisers, appraisements, abstracts of titles, deeds or other conveyances in any department of the Government or in the railway offices at Moncton, relating to, or in any manner connected with, the purchase by the Intercolonial Railway of a property in Moncton, N.B., at the corner of Archibald and Main streets in said city, formerly owned in his lifetime by the late P. S. Archibald, C.E., and now occupied by the General Superintendent of the Intercolonial Railway, F. P. Brady, as a residence; together with a copy of all bills, accounts and statement of expenditures for repairs made on the buildings of said property; and also of accounts, commissions and bills paid to solicitors, attorneys or other agents, for searches, conveyances, and a statement of all monies paid for charges and expenses in connection with such purchase or the procuring of a deed of said property. Presented March 26, 1914.—*Mr. Emmerson*.....*Not printed.*

202*b*. Further Supplementary Return to an Order of the House of the 9th February, 1914, for a copy of all papers, letters or other correspondence, instructions, reports, valuations, appointment of valuators, or appraisers, appraisements, abstracts of titles, deeds or other conveyances in any department of the Government or in the railway offices at Moncton, relating to, or in any manner connected with, the purchase by the Intercolonial Railway of a property in Moncton, N.B., at the corner of Archibald and Main streets in said city, formerly owned in his lifetime by the late P. S Archibald, C.E., and now occupied by the General Superintendent of the Intercolonial Railway, F. P. Brady, as a residence; together with a copy of all bills, accounts and statement of expenditures for repairs made on the buildings of said property; and also of accounts, commissions and bills paid to solicitors, attorneys or other agents, for searches, conveyances, and a statement of all monies paid for charges and expenses in connection with such purchase or the procuring of a deed of said property. Presented April 1, 1914.—*Mr. Emmerson*.....*Not printed.*

203. Return to an Order of the House of the 4th March, 1914, for a return showing the freight rates under the old tariff of the Intercolonial Railway, per 100 lbs. or per ton, on fresh, dried and cured fish, molasses, coal oil, nails, hardware and anthracite coal from Gloucester Junction and Bathurst station to and from St. John, and the present rates for the same articles between the same points. Presented March 17, 1914.—*Mr. Turgeon.*
Not printed.

204. Return to an Order of the House of the 23rd February, 1914, for a return showing all smelt fishing licenses issued in the County of Pictou during the past season, and of all correspondence in reference to the same. Presented March 17, 1914.—*Mr. Macdonald.*
Not printed.

204*a*. Supplementary Return to an Order of the House of the 23rd February, 1914, for a return showing all smelt fishing licenses issued in the County of Pictou during the past season, and of all correspondence in reference to the same. Presented April 17, 1914.—*Mr. Macdonald*.....*Not printed.*

205. Return to an Order of the House of the 2nd February, 1914, for a copy of all documents concerning the latest changes in the lobster fishing regulations at Magdalen Islands. Presented March 17, 1914.—*Mr. Lemieux*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

206. Return to an Order of the House of the 16th February, 1914, for a copy of all correspondence, telegrams, tenders and documents connected in any way with the supplying of coal to the lobster hatchery at Margaree during the years 1910-1911, 1911-1912, 1912-1913 and 1913-1914. Presented March 17, 1914.—*Mr. Chisholm (Antigonish).*
Not printed.

207. Return to an Order of the House of the 16th February, 1914, for a copy of the charges made against Mrs. Marguerite Fair, postmistress of Black Cape, Quebec, on which Mr. Louis Taché of Rimouski, was authorized to hold an investigation, together with the appeal of said investigation, if any was held. Presented March 17, 1914.—*Mr. Marcil (Bonaventure)* ..... *Not printed.*

208. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, papers, documents, reports, &c., in connection with the proposed increase of mail service from Shelburne, N.S., to Jordan Bay and Jordan Ferry and return since October 1, 1911. Presented March 17, 1914.—*Mr. Maclean (Halifax)*..... *Not printed.*

209. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence between the Post Office Department, or any official thereof, and any person or persons, concerning the installation of street letter boxes in the village of Chesley, in the riding of South Bruce. Presented March 17, 1914.—*Mr. Graham*....*Not printed.*

210. Report of the Commission of Conservation of Canada on the Trent Watershed Survey, a reconnaissance by C. D. Howe, Ph.D., and J. H. White, B.A., B.Sc. F., with an introductory discussion by B E. Fernow, LL.D Presented by Hon. Mr. Borden, March 19, 1914 ..... *Not printed.*

210a. Conservation of coal in Canada. Report of Commission of Conservation.—(*Senate*).
Not printed.

211. Copy of evidence taken before Mr. William Henry Moore, the commissioner appointed to inquire into certain charges against Mr. Frank Fairen, store keeper on the Trent Canal, sentation in the Senate, of the Western provinces of Canada. Presented by Hon. Mr. March 19, 1914 ..... *Not printed.*

212. Copy of the opinion of the Deputy Minister of Justice on the subject of increased representation in the Senate, of ahe Western provinces of Canada. Presented by Hon. Mr. Borden, March 19, 1914 ..... *Not printed.*

212a. Copy of a resolution of the Legislative Assembly of the Province of British Columbia, approved by His Honour the Lieutenant Governor in Council, in which application is made to the Federal Government to increase the number of senators for the said province. Presented by Hon. Mr Borden, March 19, 1914..... *Not printed.*

212b. Copy of opinion of the Assistant Deputy Minister of Justice on the subject of increased representation in the Senate, of the prairie provinces of Canada. Presented by Hon. Mr. Borden, March 23, 1914..... *Not printed.*

213. Return to an Order of the House of the 9th March, 1914, for a copy of all papers and correspondence in the Department of Customs regarding the entry of a boring mill at Lethbridge, Alberta, shipped in Aug[illegible] 1913, by John Stirk and Company, and billed to the Lethbridge Iron Works. Presented March 20, 1914.—*Mr. Buchanan* .
Not printed.

214. Return to an Order of the House of the 16th March, 1914, for a copy of a petition dated the 9th of July, 1911, signed by Etienne Barre, Joseph Trudeau and others, taxpayers of the municipality of Chambly Basin, and addressed to the Minister of Justice, together with a copy of all documents and vouchers attached to said petition, and of all correspondence and other documents relating thereto. Presented March 23, 1914.—*Mr. Lamarche* ..... *Not printed.*

215. Return to an Order of the House of the 2nd February, 1914, for a return showing where the D.G. cruiser *Margaret* was built; the names of the builders; the contract price; whether the contract was awarded to the lowest tenderer; the name and address of each tenderer and amount of each tender; if the Government or any department thereof has contracted for any other vessel or vessels during the past eighteen months; and if so, the number of such vessels, the names and addresses of the contractors, the gross tonnage of each and the contract price, and the service for which they were intended. Presented March 23, 1914.—*Mr. Sinclair*..... *Not printed.*

216. Return to an Order of the House of the 2nd March, 1914, for a copy of all letters, telegrams or other correspondence in connection with the seizure of eleven (11) horses belonging to Mr. John M. Ferguson, Kaleida, Manitoba, on or about the 28th day of March, 1912. Presented March 24, 1914.—*Mr. Turriff*..... *Not printed.*

217. Return to an Order of the House of the 4th February, 1914, for a return showing the quantities and values of potatoes imported monthly into Canada during the years 1911, 1912 and 1913, and the countries from which such potatoes were imported. Presented March 25, 1914.—*Mr. Hughes (Kings, P.E.I.)*..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

217a. Return to an Order of the House of the 2nd February, 1914, for a return showing the quantities and values of potatoes exported monthly from each province of Canada, from September 1, 1911, to January 1, 1914, and the countries to which the same were exported. Presented March 25, 1914.—*Mr. Carvell* .....*Not printed.*

218. Return to an Order of the House of the 12th March, 1914, for a return showing how many colonels, honorary colonels, lieut.-colonels, honorary lieut.-colonels, and other officers, honorary and otherwise, have been appointed by the Minister of Militia and Defence from October, 1911, to the present time. Presented March 25, 1914.—*Mr. Hughes (Kings, P.E.I.)*.....*Not printed.*

218a. Return to an Order of the House of the 11th February, 1914, for a return showing the number of honourary appointments to military rank which have been made by, or with the approval of, the present Minister of Militia and Defence since he assumed office, giving the names of the persons so appointed, and the rank of each. Presented April 1, 1914.—*Mr. Murphy* .....*Not printed.*

219. Kitsilano Indian reserve—relating to the purchase of by the Government of the Dominion of Canada from the Province of British Columbia.—(*Senate*).....*Not printed.*

220. Return to an Address to His Royal Highness the Governor General of the 9th March, 1914, for a copy of all papers, documents, Orders in Council, correspondence, &c., in reference to the suspension of Mr. Joseph McGillis of the Department of Customs, Ottawa. Presented March 27, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

221. Return to an Order of the House of the 2nd February, 1914, for a return showing the names of all parties who have been employed at the Experimental Farm at Ste. Anne de la Pocatière during the years 1912 and 1913, and the salary and fees paid to each of them. Presented March 30, 1914.—*Mr. Lapointe (Kamouraska)*.....*Not printed.*

222. Return to an Order of the House of the 9th February, 1914, for a return showing the total number of veterinary inspectors employed by the Government in the slaughter houses of the country; how they are distributed in each Province; the names of the establishments they are connected with, and the number of officers in each of them; if the Government employ some others to supervise the health of the herds on the farms besides the veterinary inspectors connected with the slaughter houses; the number of them, and how they are distributed in each Province; the number of herds of both cattle and hogs that have been submitted to inspection during the years 1911, 1912 and 1913; the number of animals in each Province slaughtered ,after tuberculosis was found in them; if the Government paid indemnities to the owners on account of such slaughtering, and if so, the amount in each Province; the respective salaries of the veterinary inspectors employed in the slaughter houses; the working hours of those officers; the respective salaries paid to the veterinary inspectors employed for other purposes; the amount of the expenses of that branch of the Department of Agriculture for the years 1911, 1912 and 1913 for internal managmeent, such as salaries, and the salaries and expenses for each of the Provinces. Presented March 30, 1914.—*Mr. Boyer.* *Not printed.*

223. Return to an Order of the House of the 23rd February, 1914, for a copy of the report of George Lafontaine, received by the Department of Agriculture during the present fiscal year, relating to the manufacture of chemical manure. Presented March 30, 1914.—*Mr. Boulay* .....*Not printed.*

224. Return to an Order of the House of the 16th February, 1914, for a return showing.—

1. Whether the Postmaster General has given a contract for rural parcel boxes; and, if so, to whom?
2. Whether tenders for the boxes were asked?
3. From whom tenders were received?
4. The price, if any, of the different tenders?
5. How many boxes were ordered, and at what price?
6. Whether the Postmaster General, since he came into office, has made a contract for rural mail boxes, and, if so, when?
7. The amount of the contract?
8. Who the tenderers were, and the price, if any, of the different tenders?
9. Who received the contract, and the price paid per box?
10. How many boxes, if any, were ordered? Presented March 31, 1914.—*Mr. Nesbitt* ..... *Not printed.*

225. Return to an Order of the House of the 23rd March, 1914, for a return showing the rates of interest paid on all Dominion loans from 1890 to 1914. Presented March 31, 1914.—*Mr. Pardee*.....*Not printed.*

226. Return to an Address to His Royal Highness the Governor General, of the 9th March, 1914, for a copy of all correspondence since October, 1911, between the Government of Canada, represented by the Department of Marine and Fisheries, of the one part, and the Goverment of the United Kingdom, the Government of the United States, or any other Government, of the other part, relating to steam trawling in Atlantic waters. Presented March 31, 1914.—*Mr. Sinclair*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

227. Return to an Order of the House of the 11th February, 1914, for a copy of all letters, telegrams, and written requests during the years 1912 and 1913, addressed to the Department of Marine and Fisheries, or the Department of Naval Affairs, or any officer of either Department, or Marine branches of said department, or any officer or persons of either branch, by any person or persons, relating to proposals or requests that the vessels or any vessel under the control of the Naval Branch of said Department, should be present at any regatta or celebration of any description held anywhere on the Atlantic or Pacific Coasts of Canada during said years; also of all replies to such letters, telegrams and written requests. Presented March 31, 1914.—*Mr. Law* ..... *Not printed.*

228. Return to an Order of the House of the 9th March, 1914, for a copy of all correspondence, memoranda and other documents relating to the moral, mental and physical inspection of all immigrants entering Canada. Presented April 1, 1914.—*Mr. Paquet.* *Not printed.*

229. Return to an Order of the House of the 16th March, 1914, for a copy of all orders, reports, applications, letters, telegrams and other documents connected with or in any manner relating to the retirement of Amasa E. Killam, an official of the Intercolonial Railway, from the employment of the said railway, and to his claim for a retiring allowance, under the provisions of the Intercolonial and Prince Edward Island Railway Employees' Provident Fund Act; and also of all letters showing the date of his beginning work in the service of the said railway and of his appointment to a position in the employ of said railway on the first of April, 1897, or at any other date. Also a copy of all instructions and letters from the then Minister of Railways to the general manager or to any other official of the Intercolonial, relating to engagement or employment of the said Amasa E. Killam, and of all letters, correspondence, instructions, reports, or other documents in any way relating thereto and to the engagement of the said Amasa E. Killam, during the month of March, 1897, to take the position of bridge and building inspector on the Intercolonial Railway, to commence work on the first day of April, 1897. Presented April 1, 1914.—*Mr. Emmerson*...*Not printed.*

230. Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, papers and other documents relating to the payments made at Skinners Cove, Pictou County, for purchase of land or other rights in the year 1913. Presented April 2, 1914.—*Mr. Macdonald* ..... *Not printed.*

231. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, correspondence, telegrams, letters, pay rolls, accounts and vouchers in any way referring to the expenditure of money by this Government for the public wharf at Whycocomagh. Presented April 2, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

231*a*. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, advertisements, tenders, bids, contracts, reports, vouchers, accounts, receipts, correspondence, &c., in connection with the construction of a wharf at Feltzen South, Lunenburg County, N.S., now under construction or recently completed. Presented April 2, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

231*b*. Return to an Order of the House of the 4th March, 1914, for a return showing:—

1. How much money was expended on the repairs to the wharf at South Gut, Victoria County, during the summer of 1913?
2. How much on labour and how much on material, respectively?
3. Who was the foreman, by whom recommended, and his rate of wages per day?
4. How many days he was employed as foreman?
5. How many men he had working for him on the wharf each day, and the wages paid each man?
6. How much was paid for material for the repairs, and where it was obtained?
7. From whom the material was purchased, the nature of it, and the price paid per foot?
8. Who was the paymaster on this work and when the men were paid? Presented April 2, 1914.—*Mr. McKenzie*.....*Not printed.*

231*c*. Return to an Order of the House of the 9th February, 1914, for a return showing the amount expended by the Government on wharfs, breakwaters, public works and dredging in the County of Yarmouth since October 11, 1911; and to whom the amounts so expended were paid. Presented April 2, 1914.—*Mr. Law*....*Not printed.*

231*d*. Return to an Order of the House of the 4th March, 1914, for a return showing:—

1. How much money was expended on repairs to the Englishtown wharf, County of Victoria, in the summer of 1913?
2. How much on labour and how much on material, respectively?
3. Who was the foreman, by whom he was recommended, and his rate of wages per day?
4. How many days he was employed as foreman?
5. How many men he had working for him on the wharf each day, and the wages paid each man?

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6. From whom the material was purchased, of what it consisted, and the price paid per foot?

7. Who was the paymaster on this work, and when the men were paid?

8. When the work was begun and when completed? Presented April 2, 1914.—*Mr. McKenzie* ..... *Not printed.*

231e. Return to an Order of the House of the 16th February, 1913, for a copy of all letters, telegrams, correspondence, pay-rolls, vouchers and documents of all kinds connected in any way with repairs or extension of wharf at Finlay Point, Mabou, Inverness County, during the year 1910-1911. Presented April 2, 1914.—*Mr. Chisholm (Inverness)* ..... *Not printed.*

231f. Return to an Order of the House of the 4th March, 1914, for a return showing the amount of timber used and the price paid for same in renewing and repairing the wharf at Port Clyde, Shelbourne County, N.S.; the amount of wages paid on same, and to whom; and the number and price of ballast poles used in the above work. Presented April 2, 1914.—*Mr. Law* ..... *Not printed.*

231g. Return to an Order of the House of the 12th May, 1913, for a copy of all papers, telegrams, documents, reports, correspondence, &c., in any way relating to a proposed extension of a wharf or the construction of a new wharf at Finlay Point, Inverness County, N.S. Presented April 2, 1914.—*Mr. Chisholm (Inverness)* ..... *Not printed.*

231h. Return to an Order of the House of the 26th May, 1913, for a copy of all papers, letters and documents relating to the building of a wharf in the town of L'Assomption. Presented April 2, 1914.—*Mr. Seguin* ..... *Not printed.*

231i. Return to an Address of the 19th May, 1913, to His Excellency the Administrator for a copy of all papers, tenders, contracts, accounts, and Orders in Council, between the Department of Public Works and any other person or persons, relating to the purchase of a site for the public wharf being erected or recently erected at Bear River, N.S., and also relating to the construction of said wharf, and anything in connection therewith. Presented April 2, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

231j. Return to an Order of the House of the 31st March, 1913, for a copy of all papers, documents, correspondence, &c., relating to the purchase of a property at Centreville, Shelburne County, Nova Scotia, as a site for a public wharf, and in connection with any monies expended on the McGray property at Centreville, upon the public wharf. Presented April 2, 1914.—*Mr. Kyte* ..... *Not printed.*

231k. Return to an Order of the House of the 9th March, 1914, for a copy of all correspondence, letters, telegrams, notes, requests, &c., addressed to the Department or the Minister of Public Works, directly or indirectly, in connection with the work necessary for the completion of the wharf at Sainte Croix, County of Lotbinière, since the 21st of September 1911, to date. Presented April 16, 1914.—*Mr. Fortier* ..... *Not printed.*

231l. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, petitions, memorials, letters, reports, and telegrams, in the Department of Public Works, or in any of the Departments of the Government, relating to a proposed wharf or breakwater at Little Cape, and Great Shemogue Harbour, Westmorland County, N.B.; also of all correspondence, letters and telegrams exchanged between any member of the Government and M. G. Siddal, or any other persons or corporations, relating to a proposal or application to construct a wharf or breakwater at Little Cape or Great Shemogue Harbour in Westmorland County, N.B., or in connection with having a survey made in connection with any such proposal. Presented April 17, 1914.—*Mr. Emmerson* ..... *Not printed.*

231m. Return to an Order of the House of the 9th February, 1914, for a copy of all reports, memoranda, correspondence and documents of every nature, relating to the construction of a wharf in the town of L'Assomption, and of all petitions and correspondence in favour or against such construction to date, and the reasons why the construction of such wharf, authorized in the estimates of 1911-1912, has not been proceeded with. Presented April 17, 1914.—*Mr. Seguin* ..... *Not printed.*

231n. Return to an Order of the House of the 16th March, 1914, for a copy of all accounts, vouchers, pay-rolls, instructions, correspondence and recommendations relating to the expenditure on the public wharf at Arichat, N.S., since the 11th day of October, 1911. Presented April 30, 1914.—*Mr. Kyte* ..... *Not printed.*

231o. Return to an Order of the House of the 16th February, 1914, for a copy of all tenders, contracts, memorandums, pay-rolls, accounts, vouchers, correspondence, papers and documents, &c., in connection with work performed upon the Government wharf at Croft's Cove, Lunenburg County, in 1912. Presented April 30, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

231p. Return to an Order of the House of the 9th March, 1914, for a copy of all correspondence, letters, telegrams, petitions and other documents relating to the claim of the Bonaventure and Gloucester Interprovincial Company, Limited, in connection wtih a wharf on Bonaventure river, Bonaventure County. Presented April 30, 1914.—*Mr. Sevigny.* *Not printed.*

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231q. Supplementary Return to an Order of the House of the 9th March, 1914, for a copy of all correspondence, letters, telegrams, notes, requests, &c., addressed to the Department or the Minister of Public Works, directly or indirectly, in connection with the work necessary for the completion of the wharf at Sainte Croix, County of Lotbinière, since the 21st September, 1911, to date. Presented April 30, 1914.—*Mr. Fortier*.....*Not printed.*

231r. Return to an Order of the House of the 2nd February, 1914, for a copy of all tenders, contracts, pay rolls, vouchers, documents, correspondence, &c., in connection with the purchase of a site for the Government wharf at Bear River, N.S., and the construction of the said wharf. Presented April 30, 1914.—*Mr. Maclean (Halifax)*..*Not printed.*

231s. Return to an Order of the House of the 9th March, 1914, for a return showing:—

1. How much was spent upon Halls Harbour wharf, Kings County, N.S., in 1913?

2. The name of the commissioner or foreman, by whom he was recommended, and his remuneration?

3. How much lumber was used upon the said wharf during 1913, from whom the same was purchased, and the price paid for the various forms thereof. Presented April 30, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

231t. Return to an Order of the House of the 16th February, 1914, for a copy of the pay-list, including the names and residences, of all those who have worked at the wharf of L'Ile Verte, County of Témiscouata, the number of days of employment of each of them; the amount received by each of them, who has or have signed the receipt or receipts for said amounts, in connection with the works which have been going on during the summer of 1912 and during the summer of 1913. Presented April 30, 1914.—*Mr. Gauvreau*.....*Not printed.*

231u. Return to an Order of the House of the 16th February, 1914, for a copy of the pay-list, including the names and residences, of the men who have worked on the wharf to the west of Rivière-Verte, Témiscouata, the number of days' work of each of them; the amount of money received by each of them, who has or have signed the receipt or receipts for said amounts on said pay-list or otherwise, the whole for: (1o) 1912; (2o) 1913. Presented May 4, 1914.—*Mr. Gauvreau*.....*Not printed.*

231v. Further Supplementary Return to an Order of the House of the 9th March, 1914, for a copy of all correspondence letters, telegrams, notes, requests, &c., addressed to the Department or the Minister of Public Works, directly or indirectly, in connection with the work necessary for the completion of the wharf at Sainte Croix, County of Lotbinière, since the 21st of September, 1911, to date. Presented May 4, 1914.—*Mr. Fortier*.....*Not printed.*

231w. Return to an Order of the House of the 30th March, 1914, for a copy of all letters and telegrams addressed by G. A. R. Rowlings and J. S. Wells to the Department of Public Works, or the Minister, since October 1, 1911, relating to the construction of a public wharf at Cole Harbour, Guysborough County, N.S., and of all replies thereto. Presented May 12, 1914.—*Mr. Sinclair*.....*Not printed.*

231x. Return to an Order of the House of the 16th February, 1914, for a copy of all letters, telegrams and correspondence of all kinds in any way relating to repairs required on the pier at Margaree Harbour, Inverness County, received in 1912-1913 and 1913-1914. Presented May 12, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

231y. Return to an Order of the House of the 27th April, 1914, for a copy of all correspondence, pay-rolls, accounts, receipts, vouchers and papers relating to the construction of Feltzen South wharf, Lunenburg County, N.S. Presented May 16, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

231z. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, correspondence, telegrams, letters, pay-rolls, accounts and vouchers in any way referring to the expenditure of money by this Government for the building and repair of the public wharf at Port Hood. Presented May 16, 1914.—*Mr. Chisholm (Inverness)*

Not printed.

231 (2a). Return to an Order of the House of the 4th May, 1914, for a copy of all correspondence, telegrams, complaints, pay rolls, vouchers and all other documents in any way connected with the expenditure of $500 during the year 1913 on Finlay Point wharf, Inverness County. Presented May 16, 1914.—*Mr. Chisholm (Inverness)*..*Not printed.*

231 (2b). Return to an Order of the House of the 6th April, 1914, for a copy of all correspondence, letters, telegrams, petitions and recommendations relating to the wharf at Arichat, N.S., to be used by SS. *Magdalin*. Presented May 29, 1914.—*Mr. Kyte*.....*Not printed.*

231 (2c). Return to an Order of the House of the 9th March, 1914, for a return showing:—

1. How much money was spent upon Kingsport Pier, Kings County, N.S., during the year 1913?

2. The name of the foreman or commissioner, by whom he was recommended, and the remuneration paid him?

3. How much lumber was purchased and used for said pier, from whom it was purchased, and the particulars of the prices paid therefor?

4. What was done with the lumber or piling taken out of said pier, and if the same was sold, to whom and at what price? Presented May 29, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

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231 (2*d*). Return to an Order of the House of the 27th April, 1914, for a copy of all correspondence, pay-rolls, accounts, receipts, vouchers and papers relating to the construction of Kraut Point wharf, Lunenburg County, N.S. Presented June 12, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

232. Return to an Order of the House of the 4th March, 1914, for a return showing:—

1. How much money has been expended in public works in the Counties of Rimouski and Gaspé, respectively, since October 11, 1911.

2. How much of the money so expended was provided for in the estimates of 1911-1912?

3. What amount was expended on the works for which money was not included in the estimates of 1911-1912? Presented April 2, 1914.—*Mr. Marcil (Bonaventure).* *Not printed.*

232*a*. Return to an Order of the House of the 23rd February, 1914, for a return showing how mu h money has been expended on public works in Antigonish County since October 11, 1911.

2. How much of the amount so expended was provided in the estimates for 1911-1912?

3. What amount, not included in the estimates for 1911-1912, was expended on public works in said county? Presented April 2, 1914.—*Mr. Chisholm (Antigonish).*

232*b*. Return to an Order of the House of the 9th February, 1914, for a copy of all papers, reports, documents, correspondence, plans, &c., in reference to a proposed Government public building at Bear River, N.S., and the purchase of a site for the same. Presented April 2, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

232*c*. Return to an Order of the House of the 9th April, 1913, for a copy of all charges, correspondence, pay-rolls, telegrams and other documents relating in any way to the expenditure of money on the harbour improvements at Mabou Harbour by the Department of Public Works, during the years 1911-12, 1912-13. Presented April 2, 1914.—*Mr. Chisholm (Inverness)* ..... *Not printed.*

232*d*. Return to an Order of the House of the 28th May, 1913, was issued to the proper officer for a copy of the specifications and tenders for materials to be used in connection with the proposed dry dock at Lauzon, Quebec. Presented April 2, 1914.—*Mr. Lemieux.* *Not printed.*

232*e*. Return to an Order of the House of the 3rd March, 1913, for a copy of all documents, letters, reports of engineers and statements of detailed expenditure in connection with dredging at Bonaventure River, Quebec. Presented April 2, 1914.—*Mr. Marcil (Bonaventure)* ..... *Not printed.*

232*f*. Return to an Order of the House of the 3rd March, 1913, for a copy of all petitions, correspondence, reports or other papers or documents in the Department of Public Works relating to the building of a breakwater at Goulman's Point, Half Island Cove, Guysboro' County, N.S. Presented April 2, 1914.—*Mr. Sinclair*..... *Not printed.*

232*g*. Return to an Order of the House of the 16th February, 1914, for a copy of all letters, telegrams, correspondence and documents of all kinds in any way relating to a lighthouse to be built at Red Cape, Margaree Harbour, Inverness County. Presented April 7, 1914.—*Mr. Chisholm (Inverness)* ..... *Not printed.*

232*h*. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, documents, telegrams, correspondence, &c., in reference to the purchase of a site in Saskatoon for a post office building. Presented April 16, 1914.—*Mr. McCraney.* *Not printed.*

232*i*. Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, reports, petitions and documents exchanged by and with the Department of Public Works since the 1st of September, 1911, to date, with the reasons why the construction of the public building, authorized in the town of St. Lin Des Laurentides, County of L'Assomption, as per the estimates of 1911-1912, has not been proceeded with. Presented April 17, 1914.—*Mr. Seguin* ..... *Not printed.*

232*j*. Return to an Order of the House of the 2nd February, 1914, for all correspondence, reports and documents exchanged by and with the Department of Public Works from October, 1911, to date, regarding the non-erection of the public building authorized to be erected at New Carlisle, the county seat of Bonaventure County, in the estimates of 1911-1912. Presented April 17, 1914.—*Mr. Marcil (Bonaventure)*..... *Not printed.*

232*k*. Return to an Order of the House of the 2nd February, 1914, for a return showing the names of all persons who worked on Lingan Bar, South Cape Breton, under Superintendent H. D. McLean, the wages paid to each per diem, the amount paid each or payable to each, and showing generally how the amount voted for such work was expended, and the amount received by H. D. McLean in connection with said work. Presented April 17, 1914.—*Mr. Carroll* ..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

232*l*. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, advertisements, tenders, contracts, papers, telegrams, correspondence, returns, reports, accounts, vouchers, receipts, &c., in connection with any dredging performed by the Nova Scotia Dredging Company, or any other company, corporation or individuals, at Jeddore, Halifax County, N.S., in the years 1912 and 1913. Presented April 17, 1914. —*Mr. Maclean (Halifax)* ..... *Not printed.*

232*m*. Return to an Order of the House of the 12th May, 1913, for a copy of all papers, telegrams, documents, reports, correspondence, pay-rolls, &c., in any way relating to a life-saving station which was constructed at Cheticamp, during 1912. Presented April 28, 1914.—*Mr Chisholm (Inverness)* ..... *Not printed.*

232*n*. Return to an Order of the House of the 12th March, 1914, for a return showing:—

1 What firms or persons are or have been engaged in dredging for the Government in the harbour of St. John and upon the St. John river and its tributaries since October 1, 1911

2 What amount has been paid to each firm or person for this work from October 1, 1911, to the present time?

3. Who are the officers, president, manager and secretary of each of these corporations? Presented April 30, 1914.—*Mr. Carvell* ..... *Not printed.*

232*o*. Return to an Order of the House of the 16th February, 1914, for a copy of all documents bearing on the repairing and improvement of the Metapedia Road in the Counties of Rimouski and Bonaventure. Presented April 30, 1914.—*Mr. Marcil (Bonaventure).* *Not printed.*

232*p*. Return to an Order of the House of the 12th March, 1914, for a return showing:—

1. What tug boats, steam or gasoline tenders, have been employed by the Government since September 21, 1911, in connection with the dredging operations in St. John harbour and in the River St John and its tributaries?

2. Who are the registered owners of these boats and from whom each is hired?

3. The sum paid per day for each tug boat or tender and how many days each has worked in the period referred to.

4. What amount of money has been paid for the service of each boat in the period referred to and to whom it has been paid. Presented April 30, 1914.—*Mr. Carvell.* *Not printed.*

232*q*. Return to an Order of the House of the 9th March, 1914, for a return showing the details as to the nature of the work concerning the damming of the Chateauguay river, the number of men employed, their names, the wages paid in each case and the period of their employment during the calendar year 1913. Presented April 30, 1914.—*Mr. Lemieux* ..... *Not printed.*

232*r*. Return to an Order of the House of the 16th March, 1914, for a copy of all letters, telegrams, correspondence, reports, petitions, and communications filed in the Department of Public Works since 1910, relating to the dredging of Antigonish harbour, or the straightening or widening of the channel, or other improvements proposed to be made there. Presented April 30, 1914.—*Mr. Chisholm (Antigonish)* ..... *Not printed.*

232*s*. Return to an Order of the House of the 23rd March, 1914, for a copy of all letters, papers and other documents relative to the purchase of a lot of land in the town of Stellarton, for a public building. Presented April 30, 1914.—*Mr. Macdonald*..... *Not printed.*

232*t*. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, correspondence, telegrams, letters, pay-rolls, accounts, and vouchers in any way referring to the expenditure of money by this Government in the construction of the new telegraph or telephone line from Baddeck, Victoria County, N.S. ,to North East Margaree, Inverness County, N.S., thence to Big Intervale, Inverness County, N.S., and also in connection with the lines from South West Margaree to Loch Ban, and from Scotsville to Whycocomagh, all in Inverness County, N.S. Presented May 4, 1914.—*Mr. Chisholm (Antigonish)* ..... *Not printed.*

232*u*. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, documents, telegrams, correspondence, &c., in reference to the purchase of a property or site on Gottingen street, Halifax, for the erection of a post office building. Presented May 4, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

232*v*. Return to an Order of the House of the 16th March, 1914, for a return showing all payments made in the year 1913 in connection with repairs done to, or moneys expended on, the Blue Rock breakwater in Antigonish County, with the names of the persons to whom such payments were made, the amount paid to each, and what such amounts were for. Presented May 4, 1914.—*Mr. Chisholm (Antigonish)* ..... *Not printed.*

232*w*. Return to an Order of the House of the 9th March, 1914, for a copy of all papers, documents, correspondence, &c., from any person or persons in connection with the purchase of the site for the post office at Canning, N.S. Presented May 4, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

232*x*. Return to an Order of the House of the 2nd February, 1914, for a copy of all tenders received for the construction of a lighthouse at Grand Anse, Gloucester County, N.B., and of the contract awarded. Presented May 5, 1914.—*Mr. Turgeon*.....*Not printed.*

232*y*. Return to an Order of the House of the 16th February, 1914, for a copy of all papers, letters, telegrams, reports, deeds, fees paid to lawyers, and other documents relative to the purchasing of land from Mrs. C. F. Bertrand and Arthemise Dionne, in connection with the works on the southwest side of Rivière-Verte, l'Islet, County of Témiscouata. Presented May 5, 1914.—*Mr. Gauvreau* .....*Not printed.*

232*z*. Return to an Order of the House of the 20th April, 1914, for a copy of all correspondence between the Minister of Public Works, the Minister of Justice, or any other member of the Government, and any person or persons, relating to the location and erection of the new post office in the village of Eganville, County of Renfrew. Presented May 5, 1914.—*Mr. Graham* .....*Not printed.*

232 (2*a*). Return to an Order of the House of the 16th March, 1914, for a copy of all correspondence, documents, recommendations and reports, respecting the dredging of Des Prairies river, the work done, depth, length and width of channel dredged, the list of men employed to perform that work, their salaries respectively, and the amount of money spent on that work since the 22nd of November, 1912, up to the 2nd of February, 1914. Presented May 7, 1914.—*Mr. Wilson* (*Laval*) .....*Not printed.*

232 (2*b*). Return to an Order of the House of the 6th April, 1914, for a copy of all letters, telegrams, correspondence, complaints, bills, accounts, vouchers, receipts and any documents in any way connected with the expenditure of money at Friar's Head Boat Harbour by Simon P. Doucet, during the years 1912-13, 1913-14. Presented May 7, 1914.—*Mr. Chisholm* (*Inverness*) .....*Not printed.*

232 (2*c*). Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the public building at Gravelburg, from and since January 1, 1912. Presented May 7, 1914.—*Mr. Knowles* .....*Not printed.*

232 (2*d*). Return to an Order of the House of the 23rd March, 1914, for a copy of all specifications and of all tenders pertaining to the Brantford public building now being erected, and of the contract awarded, and of all correspondence, whether by letter or telegram, with reference thereto. Presented May 7, 1914.—*Mr. Nesbitt*.....*Not printed.*

232 (2*e*). Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of all correspondence, telegrams, petitions and memorials received by the Right Honourable R. L. Borden, Premier of Canada, or any other Minister of the Crown since the first day of October, 1911, from J. A. Gillies, Esq., N.S., or any resident of the County of Richmond, N.S., relative to expenditure of public money on public works in the said County of Richmond. Presented May 8, 1914.—*Mr. Kyte.* *Not printed.*

232 (2*f*). Supplementary Return to an Order of the House of the 20th April, 1914, for a copy of all correspondence betewen the Minister of Public Works, the Minister of Justice or any other member of the Government, and any person or persons, relating to the location and erection of the new post office in the village of Eganville, County of Renfrew. Presented May 8, 1914.—*Mr. Graham* .....*Not printed.*

232 (2*g*). Return to an Order of the House of the 2nd February, 1914, for a return showing the dredging operations carried on in Bonaventure County in 1913, together with a copy of estimates, reports, and correspondence. Presented May 11, 1914.—*Mr. Marcil.* *Not printed.*

232 (2*h*). Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence and other documents in reference to the erection of a customs building in the village of Chesley, Riding of South Bruce. Presented May 12, 1914.—*Mr. Truax.* *Not printed.*

232 (2*i*). Return to an Order of the House of the 6th April, 1914, for a copy of all accounts and vouchers covering the expenditure during the calendar year 1913 at South Lake, Lakevale, Antigonish County, and showing in detail, the persons to whom such payments were made, what such payments were for, the number of day labourers employed, and the rate of wages, the quantity of material used and the price paid therefor, the quantity of material hauled to the work and not used, and the persons supplying such material. Presented May 12, 1914.—*Mr. Chisholm* (*Antigonish*). *Not printed.*

232 (2*j*). Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, papers, telegrams, valuations, appraisals and other documents relative to the obtaining of a site for a public building at Hantsport, Nova Scotia. Presented May 12, 1914.—*Mr. Macdonald* .....*Not printed.*

232 (2*k*). Return to an Order of the House of the 11th February, 1914, for a copy of all correspondence, letters, telegrams, reports, appraisals and other documents relative to the expropriation of the lands of John Campbell and Albert E. Milligan, in connection with the improvements on the East River at Pictou. Presented May 12, 1914.—*Mr. Macdonald* .....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

232 (2*l*). Return to an Order of the House of the 16th March, 1914, for a copy of all papers, letters and other documents, including pay-lists relating to the expenditure of moneys by the Public Works Department on Falmouth Township Dyke, Hants County, in 1913. Presented May 12, 1914. *Mr. Macdonald*.....*Not printed.*

232 (2*m*). Return to an Order of the House of the 16th March, 1914, for a copy of all accounts, vouchers, pay-rolls, instructions, correspondence and recommendations relating to the expenditure on the public building at Arichat, N.S., since the 11th day of October, 1911. Presented May 16, 1914.—*Mr. Kyte*.....*Not printed.*

232 (2*n*). Return to an Order of the House of the 4th March, 1914, for a copy of all correspondence and other documents in connection with the letting of the construction for the Toronto harbour works. Presented May 16, 1914.—*Mr. Pardee*.....*Not printed.*

232 (2*o*). Return to an Order of the House of the 2nd February, 1914, for a return showing the nature and cost of works carried on in the County of Bonaventure by the Department of Public Works since October 10, 1911, to date, together with a copy of all reports, estimates, pay-lists, and correspondence in connection therewith. Presented May 27, 1914.—*Mr. Marcil (Bonaventure)*.....*Not printed.*

232 (2*p*). Return to an Order of the House of the 23rd March, 1914, for a copy of all correspondence, documents, recommendations and reports respecting the dredging at Port Elgin, Westmorland County, N.B., with the names of men employed to perform that work, their salaries, respectively, and the amount of money spent on the same from January 1, 1901, to January 1, 1914. Presented May 27, 1914.—*Mr. Robidoux.*
Not printed.

232 (2*q*). Further Supplementary Return to an Order of the House of the 20th April, 1914, for a copy of all correspondence between the Minister of Public Works, the Minister of Justice, or any other member of the Government, and any person or persons, relating to the location and erection of the new post office in the village of Eganville, County of Renfrew. Presented May 27, 1914.—*Mr. Graham*.....*Not printed.*

232 (2*r*). Return to an Order of the House of the 16th February, 1914, for a copy of all papers in connection with the Immigration Hall at Gravelburg, Sask., from and since the 1st January, 1912. Presented June 1, 1914.—*Mr. Knowles*.....*Not printed.*

232 (2*s*). Return to an Order of the House of the 2nd February, 1914, for a copy of all advertisements, tenders, accounts, vouchers, letters, documents and correspondence relating to the construction of a breakwater at The Graff, Halifax County, N.S. Presented June 2, 1914.—*Mr. Maclean (Halifax)*.....*Not printed.*

232 (2*t*). Return to an Order of the House of the 23rd February, 1914, for a copy of all letters, telegrams, correspondence, contracts and documents relating to the surrender of a contract for dredging in Miramichi Bay, N.B., by Messrs. A. and R. Loggie, and also with reference to the letting of a contract for the same, or any portion of said work, to the Northern Dredging Company; together with a copy of all notices for tenders, tenders and contracts in connection therewith. Presented June 2, 1914.—*Mr. Carvell.*
Not printed.

232 (2*u*). Return to an Order of the House of the 6th April, 1914, for a copy of all letters, telegrams, documents, papers, &c., in connection with the purchase by the Government of lots 1 and 2, block 125, plan 96, in the city of Moosejaw, for an examining warehouse site. Presented June 2, 1914.—*Mr. Knowles*.....*Not printed.*

232 (2*v*). Return to an Order of the House of the 16th February, 1914, for a copy of all letters, telegrams, correspondence of all kinds, pay-rolls, vouchers, &c., in any way referring to the expenditure of moneys on sheer dams on the Margaree river, at Margaree and North East Margaree, during 1911-1912 and 1912-1913. Presented June 2, 1914.—*Mr. Chisholm (Inverness)*.....*Not printed.*

233. Return to an Order of the House of the 24th April, 1913, for a return showing what officers and men were employed on the dredge *Northumberland* at Pictou in the months of January, February and March, 1913, and the salaries and wages paid to them respectively, the amounts paid for repairs and supplies respectively, for said dredge during said months and to whom paid respectively. Presented April 2, 1914.—*Mr. Macdonald.*
Not printed.

234. New Lobster Fishery Regulations established by Order in Council of the 25th March, 1914, in lieu of those established by Order in Council of the 30th September, 1910, and all amendments thereto, by virtue of the provisions of Section 54 of the Fisheries Act, chapter 45 of the Revised Statutes of Canada, 1906. Presented by Hon. Mr. Hazen, April 7, 1914.....*Not printed.*

235. Return to an Order of the House of the 23rd March, 1914, for a return showing:—

1. How many engineers there are in the employ of the Intercolonial Railway at Moncton and at other points on that railway, and their names?

2. How many were formerly in the employ of the Canadian Pacific Railway Company?

3. Whether Martin Murphy, C.E., is employed in the service of that railway. If so, when he was employed and what his age is? Presented April 7, 1914.—*Mr. Emmerson*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

236. Return to an Order of the House of the 30th March, 1914, for a return showing the travelling expenses paid by the Government to the Honourable Rodolphe Roy, Judge of the Superior Court at Rimouski, during the years 1912-1913 and 1914, for trips from Quebec to Rimouski and return. Presented April 8, 1914.—*Mr. Boulay*.....*Not printed.*

237. Return to an Order of the House of the 23rd March, 1914, for a return showing:—
1. The names of the lawyers who represented the Department of Justice in the district of Quebec, since the 21st September, 1911.
2. The amount of money paid to each of them. Presented April 8, 1914.—*Mr. Lapointe (Kamouraska)* .....*Not printed.*

238. Return to an Order of the House of the 4th February, 1914, for a copy of all letters, telegrams and documents generally concerning the withdrawal of an appeal in the Supreme Court of Canada, in the case of His Majesty the King, appellant, and Alfred Olivier Falardeau and Constant Napoleon Falardeau, respondents. Presented April 8, 1914.—*Mr. Lemieux* .....*Not printed.*

239. Return to an Order of the House of the 16th March, 1914, for a copy of all transfers of lands by the Militia Department to the Harbour Commissioners of Montreal, and of all correspondence with regard to the same. Presented April 15, 1914.—*Mr. Carvell.*
Not printed.

240. Return to an Order of the House of the 2nd March, 1914, for a return showing:—
1. The quantities of wheat, by grade, received into the terminal elevators at Fort William and Port Arthur, from the date of the weigh-up in 1910, to date of weigh-up in 1911, the same for 1911-1912, and the same for 1912-1913.
2. The quantities, by grade, delivered by each of the said elevators during the same periods.
3. The average or shortage, as the case may be, of each grade in each of the said elevators, as shown by the said weigh-ups in each of those above mentioned periods.
4. The date of the weigh-up in each case. Presented April 15, 1914.—*Mr. Neely.*
Not printed.

241. Return to an Order of the House of the 2nd March, 1914, for a copy of all rules, orders and regulations, &c., affecting the handling of grain made by the Grain Commission to date, and of any changes made in elevator charges and terms, if any. Presented April 15, 1914.—*Mr. Neely* .....*Not printed.*

242. Return to an Order of the House of the 6th April, 1914, for a copy of the new rules and regulations in regard to employees of the Intercolonial Railway and Prince Edward Island Railways. Presented April 15, 1914.—*Mr. Macdonald*.....*Not printed.*

243. Return to an Address to His Royal Highness the Governor General of the 30th March, 1914, for a copy of all correspondence, petitions, lists of shareholders, Orders in Council, licenses, certificates and other papers and documents, and of all renewals thereof, relating to the incorporation and licensing of the Banque St. Jean, the Banque Ville Marie and the Banque Jacques Cartier, all in the Province of Quebec. Presented April 16, 1914.—*Mr. Demers* .....*Not printed.*

243*a*. Return to an Address to His Royal Highness the Governor General of the 23rd March, 1914, for a copy of all correspondence, petitions, lists of shareholdres, Orders in Council, licenses, certificates and other papers and documents and all renewals thereof, relating to the incorporation and licensing of the Bank of Yarmouth, and of all papers and documents relating to the winding up of the business of the said bank. Presented April 16, 1914.—*Mr. Law*.....*Not printed.*

243*b*. Return to an Address to His Royal Highness the Governor General, of the 16th March, 1914, for a copy of all correspondence, petitions, lists of shareholdres, Orders in Council, licenses, certificates and other papers and documents and all renewals thereof, relating to the incorporation and licensing of the Picton Bank, and of all papers and documents relating to the winding up of the business of the said bank. Presented April 30, 1914. —*Mr. Macdonald* .....*Not printed.*

244. Return to an Order of the House of the 23rd March, 1914, for a copy of the reports made by Colin F. McKinnon, of Taylor's Road, Antigonish County, Frank A. McEchen, of Inverness, N.S., John A. McDougall of Glace Bay, C.B., J. M. McDonald, of Christmas Island, C.B., William Watkins of Cobourg Road, Halifax, S. P. Fream, of Brighton, Digby County, and J. J. Walker of Truro, N.S., special immigration agents appointed from the Province of Nova Scotia. Presented April 16, 1914.—*Mr. Chisholm (Antigonish)* .....*Not printed.*

245. Return to an Address to His Royal Highness the Governor General of the 4th February, 1914, for a copy of all correspondence and papers generally concerning the proposed changes of the Judicial Committee of the Privy Council. Presented April 16, 1914.—*Mr. Lemieux* .....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

246. Return to an Order of the House of the 2nd March, 1914, for a return giving the following information, as far as may be available, respecting the constitution of Upper Chambers or Senates within the British Empire and in foreign countries, and especially such informat on in respect of the self-governing Dominions and of foreign countries possessing a federal system of Government:—

1. As to the method of appointment, whether by executive authority or by election by the people, or otherwise.

2. As to the term of appointment, whether for life or for a term of years, or toherwise.

3. As to a re-appointment or re-election, and generally as to the filling of vacancies occasioned by death or otherwise.

4. As to qual fications, whether by age, residence, possession of real or personal property or otherwise.

5. As to limitation of the membership, and as to the numerical relation of the membership to that of the Lower House.

6. As to provisions for dissolution, appeal to the electorate, conferences or additional appointments in case of disagreement between the Upper and Lower House.

7. As to the operation of the various systems in the several Dominions and countries mentioned, and in what respect defects or difficulties have made themselves manifest.

8. All other relevant information respecting the constitution and status of such Upper Chambers. Presented April 16, 1914.—*Mr. Middlebro.*

Printed for sessional papers only.

246a. Further Supplementary Return to an Order of the House of the 2nd March, 1914, for a return giving the following information, as far as may be available, respecting the constitution of Upper Chambers or Senates within the British Empire and in foreign countries, and especially such informat on in respect of the self-governing Dominions and of foreign countries possessing a federal system of Government:—

1. As to the method of appointment, whether by executive authority or by election by the people, or otherwise.

2. As to the term of appointment, whether for life or for a term of years, or otherwise.

3. As to a re-appointment or re-election, and generally as to the filling of vacancies occasioned by death or otherwise.

4. As to qualifications, whether by age, residence, possession of real or personal property or otherwise.

5. As to limitation of the membership, and as to the numerical relation of the membership to that of the Lower House.

6. As to provisions for dissolution, appeal to the electorate, conferences or additional appointments in case of disagreement between the Upper and Lower Houses.

7. As to the operation of the various systems in the several Dominions and countries mentioned, and in what respect defects or difficulties have made themselves manifest.

8. All other relevant information respecting the constitution and status of such Upper Chambers. Presented June 10, 1914.—*Mr. Middlebro.*....

Printed for sessional papers only.

247. Return to an Order of the House of the 1st April, 1914, for a return showing:—

1. What it has cost the Government for bottled and distilled water in Ottawa since January 1, 1912, to March 1, 1914?

2. What it is costing the Government per day now for bottled and distilled water? Presented April 16, 1914.—*Mr. Sexsmith*.....*Not printed.*

248. Return to an Order of the House of the 11th February, 1914, for a copy of all papers, letters, telegrams, reports and other documents relative to the purchase of land from Joseph Fraser, in connection with the works at Cariboo Island, Pictou County, in the Public Works Department. Presented April 16, 1914.—*Mr. Macdonald*....*Not printed.*

249. Return to an Order of the House of the 21st May, 1913, for a copy of all correspondence exchanged during the year 1912, between Captain Belanger, commandant of the *Eureka* and the Department of Marine and Fisheries, both at Quebec and Ottawa. Presented April 16, 1914.—*Mr. Boulay* .....*Not printed.*

250. Return to an Order of the House of the 23rd March, 1914, for a return showing:—

1. The names of the wharfingers at Coteau Landing from 1900 to 1914.

2. The names of the vessels which moored there during that period.

3. What wharfage each of those vessels paid during that time?

4. What wharfage a coaler paid for unloading between 1900 and 1912? Presented April 17, 1914.—*Mr. Paquet*.....*Not printed.*

251 Return to an Order of the House of the 4th March, 1914, for a copy of all correspondence, letters, telegrams and documents in connection with the removal of ice in Yarmouth, N.S., harbour, by C.G.S. *Stanley* in February, 1914. Presented April 21, 1914.—*Mr. Law* .....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

252. Report of the Royal Commission on Penitentiaries, together with the evidence taken and exhibits filed before the said commission. Presented by Hon. Mr. Doherty, April 21, 1914. (Report only) ..... *Printed for distribution and sessional papers.*

253. Return to an Order of the House of the 9th March, 1914, for a return showing:—

1. How many professors, lecturers and inspectors the Department of Agriculture has in the Province of Prince Edward Island?
2. Their names, the salaries they receive, and the travelling expenses of each.
3. The duties of these professors, lecturers and inspectors?
4. How many meetings were held or demonstrations given by each of these professors, lecturers and inspectors during the months of March, April, May, June, July, August, September and October last year?
5. Where each meeting was held or demonstration given, and how each was advertised?
6. How many boxes, baskets and barrels of fruit were inspected last season, and the kinds of fruit so inspected?
7. When and where the inspection took place and how many boxes, baskets and barrels were found to be improperly or falsely marked?
8. Whether the Department received a resolution or petition from the Fruit Growers' Association of Prince Edward Island.
9. If so, what prayer or request the said resolution or petition contained, and what the Department has decided to do in regard to the matter?
10. How many cheese and butter factories were operated in each of the counties of Prince Edward Island in the year 1910 and how many in the year 1911. Presented April 22, 1914.—*Mr. Hughes (P.E.I.)* ..... *Not printed.*

254. Return to an Order of the House of the 17th February, for a return showing:—The freight rates charged during the years 1912 and 1913 on wheat from Fort William or Port Arthur to ports on the Georgian Bay and Canadian ports on Lake Huron and Lake Erie, by the Canadian Pacific Steamship Line, the Northern Navigation Company, the Merchant's Mutual Line, Inland Lines, and the Canadian Lake Line. Presented April 24, 1914.—*Mr. Alkins* ..... *Not printed.*

255. Return to an Order of the House of the 23rd March, 1914, for a copy of all letters, papers, telegrams, recommendations and documents of every kind in connection with the purchase of a Rifle Range near Souris, Prince Edward Island. Presented April 27, 1914.—*Mr. Hughes (P.E.I.)* ..... *Not printed.*

256. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers advertisements, tenders, bids, contracts, telegrams, correspondence, accounts, receipts, vouchers, &c., in reference to the supply of meats, hay, oats, and all other supplies for the 1913 summer and autumn drill at Aldershot Camp, Nova Scotia. Presented April 27, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

256a Return to an Order of the House of the 30th March, 1914, for a copy of all advertisements, tenders, contracts, documents, papers, &c., relative to the supply of ice for the Aldershot Military Camp, N.S., for the season of 1914. Presented May 26, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

257. Return to an Order of the House of the 1st April, 1914, for a Return showing:—

1. The total amount paid for pensions by the Department of Militia and Defence for the year ending March 31, 1913.
2. The number of militia officers at present on the pay-roll of the permanent corps.
3. How many private soldiers are at present on the pay-roll of the permanent force?
4. How many private soldiers joined the force during 1913?
5. How many deserted during 1913?
6. The gross amount expended by the Department of Militia and Defence for the salaries of officers and officials of every kind in the employ of the Department at Ottawa or elsewhere during the fiscal year 1912-1913.
7. The gross amount paid out for services to the private soldiers of the permanent corps during the said year 1912-1913. Presented April 27, 1914.—*Mr. Sinclair.* *Not printed.*

258. Return to an Order of the House of the 4th February, 1914, for a copy of all letters, telegrams, &c., exchanged between the Department of Militia and Messrs. A. Macdonald, E. Montpetit and others, in connection with the organization of the 33rd Hussars at Vaudreuil and Soulanges. Presented April 27, 1914.—*Mr. Boyer* ..... *Not printed.*

259 Return to an Order of the House of the 9th March, 1914, for a copy of all letters, telegrams, reports and other correspondence, in possession of the Department of Militia and Defence, relating to the purchase of land in Farnham, Quebec, for a military camp ground. Presented April 27, 1914.—*Mr. Kay* ..... *Not printed.*

260. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence between the Department of Agriculture or the Department of Customs and C. S. Campbell, Esq., K.C., relating to the importation of pure-bred animals into Canada. Presented April 27, 1914.—*Mr. Kay* ..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

261. Return to an Order of the House of the 2nd March, 1914, for a copy of all correspondence, letters, telegrams, and other documents relative to the immigration of Asiatics, including Hindus, Japanese and Chinese, which have a bearing either directly or indirectly upon the Order in Council passed by the Government during December, 1913, restricting immigration into the Province of British Columbia. Presented April 27, 1914.—*Mr. Oliver* ..... *Not printed.*

262. Return to an Address to His Royal Highness the Governor General of the 30th March, 1914, for a copy in duplicate of all leases, agreements, correspondence, Orders in Council and other documents relating to the water-power or privileges connected with the Stevens Dam, so called, that had been constructed across the River Trent at the village of Campbellford, together with a copy in duplicate of a license in connection with said dam, granted to the Honourable James Cockburn and others under date December 9, 1869, and of all correspondence with, and opinions of, the Minister of Justice at the time of the granting of said license and since that date; also a duplicate copy of all papers, correspondence, Orders in Council and other documents relating to or connected with the cancellation, termination and revocation of such license on the 12th of August 1911, and of all correspondence, propositions, agreements or other documents had and made by, to or with the Trent Valley Woollen Manufacturing Company, Limited, and of all correspondence with the Department of Justice and opinions thereof relative thereto; also a duplicate copy of all correspondence, reports, Orders in Council and other documents referred to or mentioned in an Order in Council of date August 25, 1913, set forth on page W 398, in the third volume of the Auditor General's Report, 1913, and of all correspondence with the Auditor General and by and between the Auditor General and any department of Government relating thereto or connected therewith. Presented April 27, 1914.—*Mr. Emmerson* ..... *Not printed.*

263. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, deeds, contracts, &c., in connection with the purchase by the Board of Harbour Commissioners of Quebec, of a stone quarry at St. Nicholas, Que. Presented April 28, 1914.—*Mr. Lemieux* ..... *Not printed.*

264. Return to an Order of the House of the 6th April, 1914, for a copy of all petitions, correspondence, telegrams and other papers and documents received by the Department of Marine and Fisheries since January 1, 1914, relating to the transportation of fish from the Maritime Provinces to the United States, and of all replies thereto. Presented April 29, 1914.—*Mr. Sinclair*... ..... *Not printed.*

265. Return to an Order of the House of the 2nd February, 1914, for a copy of all papers, deeds and contracts in connection with the purchase by the Department of Agriculture of a quarantine station at Lévis, Que., on or about July 29, 1913. Presented April 29, 1914.—*Mr. Lemieux* ..... *Not printed.*

265. Copy of Order in Council No. P.C. 976, dated 18th April, 1914, "Revised Regulations governing the entry of Naval Cadets." Presented by Hon. Mr. Hazen, April 30, 1914. *Not printed.*

266a. Copy of Order in Council dated 18th May, 1914, covering the organization of a Naval Volunteer Force. Presented by Hon. Mr. Hazen, May 23, 1914..... *Not printed.*

267. Return to an Order of the House of the 4th March, 1914, for a copy of all papers, correspondence and telegrams concerning the deportation of Bhwagan Singh, a Sikh priest, in defiance of a writ of Habeas Corpus. Presented April 30, 1914.—*Mr. Lemieux.* *Not printed.*

268. Statement of receipts and expenditures of the National Battlefields Commission to 31st March, 1914, as required by 7-8 Edward VII, chapter 57, section 12. Presented by Hon. Mr. White, May 4, 1914..... *Not printed.*

269. Copy of the trust deed, dated 30th June, 1903 between the Canadian Northern Railway Company and the British Empire Trust Company and the National Trust Company, Limited. Presented by Hon. Mr. Borden, May 4, 1914.. ..... *Not printed.*

269a. Copy of the trust deed, dated 6th May, 1910, between the Canadian Northern Railway Company and the British Empire Trust Company and the National Trust Company, Limited. Presented by Hon. Mr. Borden, May 4, 1914..... *Not printed.*

269b. Copy of the trust deed, dated 19th November, 1913, between the Canadian Northern Railway Company, Mackenzie, Mann & Co., Limited, and the British Empire Trust Company, and the National Trust Company, Limited. Presented by Hon. Mr. Borden, May 4, 1914..... *Printed for distribution and sessional papers.*

269c. Statement showing the floating liabilities of the railway companies embraced in the general title of the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 4, 1914 ..... *Not printed.*

269d. Statement of securities pledged as collateral to temporary loans of the Canadian Northern System. Presented by Hon. Mr. Borden, May 4, 1914..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

269*e*. Statement showing the engineer's estimate of the cost of completing the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 4, 1914.....*Not printed.*

269*f*. Statement of capital stock authorized and issued, of the companies set out in the first schedule. Presented by Hon. Mr. Borden, May 6, 1914.....*Not printed.*

269*g*. Approximate estimate of betterments for six years of the lines of the Canadian Northern Railway System.' Presented by Hon. Mr. Borden, May 6, 1914.....*Not printed.*

269*h*. Statements as on 31st December, 1913, bearing on the financing of the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 6, 1914.....*Not printed.*

269*i*. Papers and statements in respect to the Canadian Northern Railway System:—
1. Correspondence, including official application for aid.
2. Detailed statements showing particulars of capitalization, earnings, cost to complete, &c. Presented by Hon. Mr. Borden, May 6, 1914.
Printed for distribution and sessional papers.

269*j*. Copy of trust deed dated October 4, 1911.—The Canadian Northern Railway to the Guardian Trust Company, Limited, and the British Empire Trust Company, Limited, and His Majesty the King and the Canadian Northern Railway Company. Presented by Hon. Mr. Borden, May 7, 1914.....*Printed for distribution and sessional papers.*

269*k*. List of companies whose total issued stock is owned by the Canadian Northern Railway Company; also, list of companies whose total issued stock is to be transferred to The Canadian Northern Railway Company; and aiso, list of companies in which the controlling interest is to be transferred to The Canadian Northern Railway Company. Presented by Hon. Mr. Borden, May 7, 1914.....*Not printed.*

269*l*. Further statements bearing on the financing of the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 7, 1914.
Printed for distribution and sessional papers.

269*m*. Correspondence and telegrams received from the premiers of the Provinces of Nova Scotia, British Columbia, Alberta, and the Acting Premier of Saskatchewan, in regard to the granting of aid to the Canadian Northern Railway System. Presented by Hon. Mr. Borden, May 7, 1914..... *Printed for distribution and sessioanl papers.*

269*n*. Copy of trust deed dated 28th December, 1903.—The Lake Superior Terminals Company, Limited, and the National Trust Company, Limited, and the Canadian Northern Railway Company. Presented by Hon. Mr. Borden, May 11, 1914.....*Not printed.*

270. Return to an Order of the House of the 20th April, 1914, for a copy of all letters, telegrams and other documents relating to the refusal of the Railway Department, or any official of the Intercolonial Railway to permit employees of the railway at Moncton to attend the militia camp in the last year. Presented May 6, 1914.—*Mr. Macdonald.*
Not printed.

271. Return to an Order of the House of the 23rd March, 1914, for a copy of all correspondence received by the Government since October 1, 1911, to date, from John M. Cormick, of Sydney Mines, N.S., in reference to the following matters in the Riding of North Cape Breton and Victoria:—Railway extension into the Riding of North Cape Breton and Victoria; the opening of the harbour at Dingwall, Aspey Bay, C.B.; the breakwater at Meat Cove in the said Riding; the boat harbour at Bay St. Lawrence; the breakwater at White Point; the breakwater at Neil's Harbour; the breakwater at McLeod's, Ingonish; in respect to Ingonish Harbour; the breakwater at Rreton Cove; the breakwater at Little Bras d'Or; the breakwater at Cape Dauphin; the breakwater at Point Aconi; the proposed wharf at North Sydney the proposed extension of the breakwater at North Sydney; the bringing of the Intercolonial Railway to the ballast ground at North Sydney; the wharf at Sydney Mines; the wharf at Leitches Creek; the repairs to the wharf at Groves Point; the rebuilding of the wharf at Boisdale; the breakwater at Jamesville; the wharf at Castle Bay, and the proposed wharf at Shenacadie. Presented May 7, 1914.—*Mr. McKenzie*.....*Not printed.*

272. Copy of all letters, documents and correspondence relating to action by the Government in regard to the relief of the shareholders and depositors of the Farmers Bank, and of the Order in Council appointing Sir William Meredith as Commissioner, and all correspondence in relation thereto. And also, Statement of Affa'rs, &c., relating to the Farmers Bank of Canada. Presented by Hon. Mr. White, May 8, 1914....*Not printed.*

273. Return to an Order of the House of the 6th April, 1914, for a copy of all letters, telegrams and correspondence received by the Postmaster General in connection with complaints made that the postmaster at Yarmouth North, N.S., had been or is selling stamps outside his jurisdiction. Presented May 8, 1914.—*Mr. Law*.....*Not printed.*

274. Return to an Order of the House of the 9th February, 1914, for a return showing the number of criminals released on parole from the various penitentiaries of the Dominion for the year ending March 31, 1913; the offence for which each prisoner so released was convicted, and showing at the same time whether such offence was a first, second, or subsequent offence. Presented May 8, 1914.—*Mr. Sinclair*.....*Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

275. Return to an Order of the House of the 9th March, 1914, for a return showing:—
1. How many acres of public land have been given to railway companies in the Dominion of Canada by the Federal Government from 1878, to the present time?
2. How many acres were granted in each year during the above period of time Presented May 11, 1914.—*Mr. Tobin* ..... *Not printed.*

276. Return to an Order of the House of the 2nd February, 1914, for a return showing the receipts and expenses of the post office at St. Philippe, East, and of the post office at St. Philippe, West, in the parish of St. Philippe de Néri, since the first of June, 1912, to date. Presented May 11, 1914.—*Mr. Lapointe (Kamouraska)* ..... *Not printed.*

277. Report of the Dominion Wreck Commissioner in the matter of a formal investigation into the causes which led to the British steamer *Saturnia* touching the ground in the Lower Traverse, River St. Lawrence, on Tuesday, April 28, 1914. Presented by Hon. Mr. Hazen, May 12, 1914..... *Printed for sessional papers only*

278. Report of the Dominion Wreck Commissioner in the matter of a formal investiagtion into the causes which led to the stranding of the British steamship *Montfort*, on Beauport Bank, River St. Lawrence, on Tuesday, April 28, 1914. Presented by Hon. Mr. Hazen, May 12, 1914..... *Printed for sessional papers only.*

279. Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of the Order in Council appointing Arthur Plaunte, Esq., a Commissioner to receive claims against the Atlantic and Lake Superior Railway, the Baie des Chaleurs Railway and the Quebec Oriental Railway, and of the report of said Commissioner and of the statement of claims accepted and those rejected by him, with the reasons therefor, as well as of all correspondence, memorials, petitions and documents, generally bearing on said subject. Presented May 12, 1914.—*Mr. Marcil (Bonaventure)* ..... *Not printed.*

279*a*. Supplementary Return to an Address to His Royal Highness the Governor General of the 2nd February, 1914, for a copy of the Order in Council appointing Arthur Plaunte, Esq., a Commissioner to receive claims against the Atlantic and Lake Superior Railway, the Baie des Chaleurs Railway and the Quebec Oriental Railway and of the report of said Commissioner and of the statement of claims accepted and those rejected by him, with the reasons therefor, as well as of all correspondence, memorials, petitions and documents, generally bearing on said subject. Presented May 22, 1914.—*Mr. Marcil (Bonaventure)* ..... *Not printed.*

280 Return to an Order of the House of the 6th April, 1914, for a copy of all correspondence, accounts, Indemnities, travelling expenses, &c., from Fraserville to Quebec, and of all other documents relating to the amount of money received each year by His Honour Mr. Justice Ernest Cimon, from 1890 to 1913, as Judge of the Superior Court sitting at Quebec, during the time he was connected with the District of Kamouraska. Presented May 16, 1914.—*Mr. Gauvreau* ..... *Not printed.*

281. Report of the delegates appointed by the Government of Canada to attend the "International Purity Congress," held in the city of Minneapolis, Minn., November 7-12, 1913. Presented by Hon. Mr. Borden, May 16, 1914. ..... *Not printed.*

282. Agreement between the Government and steamship companies for mail carriage between Canadian and European ports.—*(Senate)* ..... *Not printed.*

283. Return to an Order of the House of the 15th April, 1914, for a return showing:—
1. How many passengers have been carried over the Intercolonial Railway from St. John to Halifax, and from Halifax to St. John, respectively, under the agreement made on the 30th September, 1913, between the Canadian Government Railways by F. P. Gutelius, General Manager and the Canadian Pacific Railway Comapny, by G. M. Bosworth, General Traffic Manager, from the 15th November, 1913, when the said agreement went into effect, to the 31st March last?
2. How many tons of freight of each of the classes mentioned in said agreement have been carried each way over the Intercolonial Railway between St. John and Halifax, under said agreement during said period?
3. What have been the total earnings by the Intercolonial Railway under said agreement up to the 31st March last, for passengers and freight carried, respectively?
4. What amount has been paid to or earned by the Canadian Pacific Railway for car hire under said agreement?
5. What number of empty cars of the Canadian Pacific Railway Company have been hauled by the Intercolonial Railway free under said agreement, and what has been the cost of such haulage?
6. What would have been the total amount paid by the Canadian Pacific Railway Company to the Intercolonial Railway, under the tariff prevailing at the time of the making of said agreement, for the passengers and the freight so carried, respectively?
7. Whether the said agreement has been submitted, as promised by the Government, to the Board of Railway Commissioners by the Minister of Railways for the purpose of having the Board determine as to whether or not said agreement is discriminatory against the port of St. John. If not, why was it not so submitted?

CONTENTS OF VOLUME 28—*Continued.*

8. If it is the intention of the Minister of Railways to renew the said agreement, or to put in force a similar agreement, during the next Winter Port season.

9. What agreement the Government intends to make as to the Atlantic termini of the fast Atlantic mail steamers for the winter of 1914-1915. Presented May 22, 1914.—*Mr. Pugsley* ..... *Not printed.*

284. Return to an Order of the Senate dated 15th May, 1914:—

1. How many judges have been retired since 1880?
2. What are their names?
3. What salary did they receive in each case?
4. How many years did they serve in each case?
5. What was the reason given for their retirement?
6. How much did they receive for retirement allowance each year in each case? Ordered, that the same do lie on the table, and it is as follows.—(*Senate*).

Not printed.

285. Return to an Address to His Royal Highness the Governor General of the 9th March, 1914, for a copy of all petitions, letters, telegrams and documents by any and all parties to and by the Department of Railways and Canals, or any other Department of the Government, with reference to the Southampton Railway Company, also of all reports of engineers and recommendations regarding a subsidy to the said railway, and of all Orders in Council granting same, and of all other documents and memoranda in the possession of the Department of Railways and Canals or other Departments of the Government regarding the said railway. Presented May 27, 1914.—*Mr. Carvell.*

Not printed.

286. Return to an Order of the House of the 2nd February, 1914, for a copy of all correspondence, papers, documents, contracts, &c., between the Government of Canada and any company, firm or individuals from May 1, 1913, to December 1, 1913, referring to the establishment of a subsidized steamship service between Canada and the British West Indies. Presented May 27, 1914.—*Mr. Maclean (Halifax)* ..... *Not printed.*

287. Return to an Order of the House of the 4th May, 1914, for a copy of all papers, letters, telegrams, accounts and receipts concerning advances made to the Montagnais Band of Indians through the agency of Seven Islands, Quebec. Presented May 29, 1914.—*Mr. Lemieux* ..... *Not printed.*

288. Return to an Order of the House of the 11th May, 1914, for a copy of all papers, letters, telegrams, accounts and receipts, concerning advances or payments made by the Government to Newton Wesley Rowell, K.C., for legal services in connection with the Oka Indian litigation. Presented May 29, 1914.—*Mr. Sharpe (Ontario)* ..... *Not printed.*

288a. Return to an Order of the House of the 6th May, 1914, for a return showing:—

1. Whether the Government paid Newton Wesley Rowell, K.C., any sums of money for legal services during the past fifteen years?
2. If so, the amounts and when?
3. Whether the Government paid the firm of which Mr. Rowell is the senior partner any sums of money for legal services?
4. If so, the amounts and in what years? Presented May 29, 1914.—*Mr. Sharpe (Ontario)* ..... *Not printed.*

289 Return to an Order of the House of the 20th April, 1914, for a return showing:—

1. The date of the incorporation of the Canadian National Bureau of Breeding, Limited, with the names, addresses and occupations of the charter members of said Company.
2. The amount of capital of the Company and the number of shares into which it is divided.
3. The number of shares taken from the commencement of the Company up to the date of the return.
4. The amount of calls made on each share, the total amount of calls received, the total amount of calls unpaid, and the total number of shares forfeited.
5. The names, addresses and occupations of the persons who have ceased to be members within the twelve months next preceding, and the number of shares held by each of them.
6. The amount of money paid to said Company by the Government in each year since incorporation. Presented May 29, 1914.—*Mr. Sutherland* ..... *Not printed.*

290. Return to an Order of the House of the 9th February, 1914, for a copy of all reports made by the inspectors of agents for placing farm labourers and domestic servants in Canada during the calendar years 1912 and 1913. Presented May 29, 1914.—*Mr. Sutherland.*

Not printed.

291. Return to an Order of the House of the 2nd March, 1914, for a return showing all the buildings, houses, offices and immoveables, occupied by the Federal Government in Montreal, for the use of the various Departments and services of each branch of the administration, together with the following information in each case; for what Department and for what service; where situated, street and number thereof; whether Government property or under lease; in the latter case, the length of lease, the rent per annum and also the other charges that may be imposed upon the Government. Presented June 4, 1914.—*Mr. Wilson (Laval)* ..... *Not printed.*

CONTENTS OF VOLUME 28—*Continued.*

292. Return to an Order of the House of the 4th May, 1914, for a copy of all correspondence exchanged by and with the Department of Public Works or the Post Office Department, relating to an application or applications for a post office building at the town of Melville, Province of Saskatchewan. Presented June 4, 1914.—*Mr. MacNutt.*
Not printed.

293. Memorandum, correspondence, estimates of cost, &c., in connection with the construction of the Grand Trunk Pacific Railway—Mountain Section. Presented by Hon. Mr. Borden, June 4, 1914.....*Not printed.*

294. Return to an Order of the House of the 4th February, 1914, for a return showing the names and addresses of the people with whom pure bred animals have been placed by the Department of Agriculture, the breed in each case, and the conditions on which these animals were placed. Presented June 5, 1914.—*Mr. Kay*.....*Not printed.*

295. Return to an Order of the House of the 30th March, 1914, for a copy of all correspondence, telegrams, instructions, accounts, vouchers and other papers and documents relating to the purchase of live stock in the Maritime Provinces by one Howard Corning of Yarmouth, N.S., during the period of his employment; also a copy of the appointment of the said Howard Corning and of all correspondence, complaints and other documents relating to the dismissal of the said Howard Corning, if he has been dismissed or retired from the service, together with a copy of all recommendations, correspondence and other papers relating to the appointment of the said Howard Corning's successor. Presented June 5, 1914.—*Mr. Sinclair* .....*Not printed.*

296. Return to an Order of the House of the 19th March, 1914, for a return showing:—
1. How many pure bred stallions and bulls have been purchased by the Department of Agriculture for the use of settlers in the Provinces of Manitoba, Saskatchewan and Alberta since the first of January, 1912, to date.?
2. Where these animals were purchased, and from whom; and also the price paid for them respectively. Presented June 5, 1914.—*Mr. Douglas*.....*Not printed.*

297. Return to an Order of the House of the 9th February, 1914, for a copy of all correspondence, including letters, telegrams and accounts, regarding the purchase and disposal during year 1913, of all horses, cattle, sheep and swine for the Department of Agriculture, Province of Quebec for Experimental Farms, or for the improvement of stock, together with a return showing the commission and fees paid, and to whom paid, for and on account of said purchases. Presented June 8, 1914.—*Mr. Robb*....*Not printed.*

298. Return to an Address to His Royal Highness the Governor General of the 9th February, 1914, for a copy of all arrangements made between the Government and the various Provinces under the Agricultural Instruction Act. Presented June 10, 1914.—*Sir Wilfrid Laurier* .....*Not printed.*

299. Partial Return to an Address to His Royal Highness the Governor General of the 4th March, 1914, for a copy of all correspondence, telegrams, petitions, Orders in Council, and other papers and documents, relating to subventions or assistance given, or to be given, by the Department of Marine and Fisheries or the Department of Agriculture to firms or joint stock companies, or persons operating cold storage plants for the preservation of fish products in Nova Scotia during the years 1908, 1909, 1910, 1911, 1912 and 1913, excluding such correspondence, &c., as relates to companies known as Fishermen's Bait Association. Presented June 10, 1914.—*Mr. Sinclair*.....*Not printed.*

300. Copy of Order in Council No. P.C. 1386, of the 29th May, 1914, concerning the regulations governing the Radiotelegraph administration. Presented by Hon. Mr. Hazen, June 11, 1914 .....*Not printed.*

300a. Copy of regulations governing Radiotelegraphy promulgated under section 11, Radiotelegraph Act, 1913. Presented by Hon. Mr. Hazen, June 11, 1914.....*Not printed.*

301. Return to an Order of the House of the 27th April, 1914, for a copy of all letters, tenders, telegrams, plans, specifications and other documents in regard to the construction of the new ice breaker by the Canadian Vickers Company of Montreal. Presented June 11, 1914.—*Mr. Macdonald* .....*Not printed.*

302. Return to an Address to His Royal Highness the Governor General of the 16th March, 1914, for a copy of all petitions, letters, affidavits, telegrams and documents to and by the Department of Justice, or any other Department of Government, on behalf of or in reference to Wm. J. Kelley, a prisoner in the United States federal prison at Atlanta, Ga., and of all the letters, telegrams and other memoranda between the Department of Justice, or any other Department of the Government, and the British Ambassador at Washington, or the Government of the United States, regarding the imprisonment and proposed liberation of the said Wm. J. Kelley. Presented June 12, 1914.—*Mr. Carvell.*
Not printed.

REPORTS, RETURNS AND STATISTICS

OF THE

INLAND REVENUES

OF THE

DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1913

PART I -- EXCISE

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1913

[No. 12—1914]

To His Royal Highness, Field Marshal Prince Arthur William Patrick Albert, Duke of Connaught and Strathearn, K.G., K.T., &c., &c., &c., Governor General and Commander-in-Chief of the Dominion of Canada.

MAY IT PLEASE YOUR ROYAL HIGHNESS :

I have the honour to transmit to Your Excellency the RETURNS AND STATISTICS of Inland Revenue of the Dominion of Canada, for the year ended March 31, 1913, as prepared and laid before me by the Deputy Minister of Inland Revenue.

All of which is respectfully submitted.

W. B. NANTEL,
Minister of Inland Revenue.

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	Pge	Pge	Pge	Pge	Pge	Pge	Pge	Pge	Pge	Pge	Pge
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Comparative Statement of the above, for the year ended March 31, 1912, and the year ended March 31, 1913, respectively	64	77	83	86	....	....	106	....	118	124	...
Return of Distilleries—Showing their transactions during the year ended March 31, 1913	66	....	..	....	....	..	...	....	....	...	....
Return of Warehouse Transactions—Showing the quantity of excisable goods remaining in bonded warehouses of each Collection Division, respectively, from previous years; quantity placed in warehouse ex-factory during the year ended March 31, 1913, placed in warehouse from other Collection Divisions; also, quantity ex-warehoused for consumption, with duty accrued thereon; ex-warehoused to be rewarehoused in other Collection Divisions; ex-warehoused for exportation; also quantity used in bonded factories, and remaining in warehouse March 31, 1913	68	78	..	88 / 90	98	....	108	..	120	125	....
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Comparative Statement of Petroleum and Naphtha inspected during the year ended March 31, 1912 and the year ended March 31, 1913, respectively	...	....	....	....	....	....	....	115	....	....	....
Methylated Spirits—Statement showing the quantity of raw material on hand at beginning of year, raw material used, quantity produced and how disposed of	....	....	..	....	....	....	....	....	..	....	126

SESSIONAL PAPER No. 12

EXPENDITURES—(Appendix B.)

	Inside Service.	Excise.	Weights and Measures.	Gas.	Electric Light.	Adulteration of Food.
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SALARIES.						
Paid to each Officer employed in collecting Revenue....						
SUPERANNUATION.						
How much deducted from each Officer's salary..						
INSURANCE FEES.						
How much deducted from each Officer's salary....	158	128	163	170	175	155
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REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

To the Hon. W. B. Nantel,
Minister of Inland Revenue.

Sir,—Herewith I have the honour to submit statements of the Inland Revenues collected by this department during the Fiscal year ended March 31, 1913, with the usual information as to the cost of collections, and statistics respecting the sources whence these revenues were derived.

The following summary comparison shows the accrued revenue for the Fiscal Years ended March 31, 1909, 1910, 1911, 1912 and 1913.

	1909.	1910.	1911.	1912.	1913.
	$	$	$	$	$
Excise	15,084,589	15,283,665	16,919,553	19,306,069	21,487,918
Ferry Licenses	1,436	553	474	1,024	529
Weights and Measures, Gas and Law Stamps	136,128	156,460	151,229	163,958	171,509
Electric Light	43,846	46,316	59,583	66,060	74,833
Other Revenues	4,552	4,571	20,837	5,669	7,501
Methylated Spirits	49,960	71,464	90,999	93,083	118,077
Totals	15,323,511	15,563,029	17,242,675	19,635,863	21,860,367

DETAILS of Excise Revenue accrued during the undermentioned Fiscal Years:

	1	2	3	4	5
	1909	1910	1911	1912	1913
	$	$	$	$	$
Spirits	6,950,589	7,169,760	7,913,376	8,667,666	9,474,142
Malt Liquor	17,628	27,314	52,893	86,756	149,437
Malt	1,396,007	1,434,004	1,529,472	1,716,547	1,864,525
Tobacco	5,964,005	6,067,599	6,784,140	8,130,776	9,192,181
Cigars	626,059	432,539	470,197	517,646	602,269
Acetic Acid	3,841	6,037	10,242	11,300	10,526
Manufactures in bond	71,669	77,811	77,840	84,729	91,460
Seizures	3,948	3,051	5,605	2,319	2,062
Other receipts	50,843	65,549	75,789	90,659	102,324
Methylated spirits	49,960	71,464	90,999	93,083	118,077
Totals	15,134,549	15,355,128	17,010,553	19,401,472	21,607,003

The quantity of spirits produced during the Fiscal Year was 6,458,452 proof gallons, as compared with 4,784,396 proof gallons produced in the previous Fiscal Year. The raw material taken for use, in the production of spirits, during the Fiscal Year was as follows :—

	Lbs.
Malt	6,637,629
Indian corn	63,048,555
Rye	11,696,490
Wheat	3,026,065
Oats	620,594
Barley	
Rice	
Molasses	26,885,496

The transactions of the several distilleries will be found stated in detail in Appendix A (Statement No. 3), pages 66 and 67.

		Proof galls.
There was on April 1, 1912, in process of manufacture		326,360
Manufactured during the Fiscal Year		6,458,452
Returned to distilleries for re-distillation—Duty paid	456	
" " " In bond	639,109	
		639,565
Received into distilleries from other sources—Duty paid		10,166
" " " In bond		
Total		7,434,543

This was disposed of as follows:

	Proof Galls.
Placed in warehouse	6,993,602
Fusel oil written off	12,721
Deficiency arising from rectification	2,508
Remaining in process of manufacture March 31, 1913, by actual stock taking	425,712
Written off	
Total	7,434,543

SPIRITS:—

The following statement shows the warehousing transactions in spirits during the Fiscal Year ended March 31, 1913, and the four preceding Fiscal Years.

Fiscal Years	1	2	3	4	5	6	7	8	9
	In Warehouse at beginning of year, including transits.	Warehoused during the year, Ex-distillery.	Otherwise Warehoused.	Taken for consumption.	Exported.	Used in Bonded Factories.	Otherwise accounted for.	For redistillation	In Warehouse at end of year, including transits.
	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.	Pf. Galls.
1908–1909	20,075,772	6,357,351	110,103	3,627,266	311,314	419,555	249,066	1,082,806	20,853,219
1909–1910	20,853,219	6,807,413	64	3,777,156	361,934	557,401	330,043	1,168,519	21,465,673
1910–1911	21,165,673	6,015,018	151,628	4,146,452	273,963	455,598	413,562	781,819	21,560,925
1911–1912	21,560,925	5,412,398	29,394	4,562,382	298,769	347,714	519,681	604,837	20,669,334
Totals	83,955,589	24,592,210	291,189	16,113,256	1,245,980	1,780,268	1,512,352	3,637,981	84,549,151
Average	20,988,897	6,148,053	72,797	4,028,314	311,495	445,067	378,088	909,495	21,137,288
1912–1913	20,669,334	6,993,602	203	4,999,937	333,802	440,826	581,305	439,109	20,668,160

The foreign demand for Canadian distillery products is slightly greater than the average of the last four years, the quantities exported being as follows:

	Proof Galls.
1908–1909	311,314
1909–1910	361,934
1910–1911	273,963
1911–1912	298,769
1912–1913	333,802

The following statement shows the entire quantities of spirits upon which duties were collected during the several Fiscal years recited therein To accord with the figures shown in Financial Statement No. 12, pages 20 and 21 :—

Fiscal Years.	Canadian Spirits.		Imported Spirits used in Bonded Factories.	Total quantities upon which duty was collected.	Memorandum of Revenue accrued, including License Fees.
	Paid duty Ex-distillery.	Paid duty Ex-warehouse.			
	Pf. Gallons.	Pf. Gallons.	Pf. Gallons.	Pf. Gallons.	$
1908-1909	19,201	3,627,266	109,885	3,756,352	6,950,589
1909-1910	5,280	3,777,156		3,782,436	7,169,760
1910-1911	7,058	4,146,452	151,387	4,304,897	7,913,376
1911-1912	9,317	4,534,785	27,597	4,571,699	8,667,666
Totals	40,856	16,085,659	288,869	16,415,384	30,701,391
Average	10,214	4,021,415	72,217	4,103,846	7,675,348
1912-13	2,508	4,999,937		5,002,445	9,474,142

MALT :

The following statement shows the transactions in Malt during the Fiscal Year ended March 31, 1913, and the four preceding Fiscal Years :—

Fiscal Year.	1	2	3	4	5	6	7	8	9
	In Warehouse at beginning of year, including transits.	Manufactured during the year.	Imported	Increase by absorption	Taken for consumption.	Exported.	Otherwise accounted for.	In Warehouse at end of year including transits.	Memorandum of Revenue accrued, including License Fees.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
1908-1909	11,515,249	95,453,648	1,220,392	618,625	92,631,306	378,200	3,276,370	42,522,038	1,396,007
1909-1910	12,522,038	90,559,046	2,237,528	930,207	95,166,134	425,600	3,663,645	36,993,440	1,434,004
1910-1911	36,993,140	100,086,332	3,073,837	839,035	101,525,130	551,500	2,526,384	36,389,330	1,529,472
1911-1912	36,389,330	115,793,326	613,382	810,372	111,029,523	291,800	2,647,187	36,634,900	1,716,547
Totals	157,420,057	401,892,352	7,145,139	3,198,239	403,352,393	1,650,100	12,113,586	152,539,708	6,076,030
Average	39,355,014	100,473,088	1,786,285	799,560	100,838,098	412,525	3,028,397	38,134,927	1,519,007
1912-1913	36,634,900	118,673,161	984,235	5,001,022	123,920,607	198,800	2,911,677	34,262,234	1,864,525

TOBACCO :

The following statement shows the transactions during the Fiscal Year ended March 31, 1913, and the four preceding Fiscal Years, respectively, in Tobacco, Snuff and Cigarettes.

Fiscal Year.	1	2	3	4	5	6	7	8	9	10	11
	In Warehouse at beginning of year, including transits.	Manufactured during the year.	Taken for consumption.	Exported.	Otherwise accounted for.	In Warehouse at end of year, including transits.	Raw Leaf taken for consumption.	Canadian Twist taken for consumption.	Total Tobacco taken for consumption.	Other Materials taken for consumption.	Duty collected thereon including License Fees.
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	$
1908-1909.....	1,594,918	17,978,589	18,268,135	102,963	32,084	1,170,325	13,530,827	19,844	31,818,806	1,073,732	5,964,005
1909-1910..... ...	1,170,325	19,462,170	19,293,891	29,250	50,421	1,258,933	13,729,875	20,673	33,044,439	1,269,027	6,067,599
1910-1911.....	1,258,933	20,355,883	20,641,947	37,071	8,110	927,688	15,012,704	19,181	35,673,832	1,123,383	6,784,140
1911-1912.....	927,688	23,557,145	23,719,939	5,790	10,338	718,766	17,491,373	17,098	41,258,410	1,372,144	8,130,776
Totals	4,951,864	81,353,787	81,953,912	175,074	100,953	4,075,712	59,764,779	76,796	141,795,487	4,838,286	26,946,520
Average.....	1,237,966	20,338,447	20,488,478	43,769	25,238	1 018,928	14,941,195	19,199	35,448,872	1,209,572	6,736,630
1912-1913.....	718,766	25,703,480	25,287,332	4,519	26,630	1,103,765	19,232,231	17,535	44,537,098	1,615,596	9,192,181

CIGARS :

The following statement shows the transactions in Cigars during the Fiscal Year ended March 31, 1913, and the four preceding Fiscal Years.

Fiscal Year.	1	2	3	4	5	6	7	8
	In Warehouse at beginning of year, including transits.	Manufactured during the year.	Assessment to bring production up to Standard.	Taken for consumption	Exported.	Otherwise accounted for.	In Warehouse at end of year, including transits.	Duty collected thereon, including License Fees.
	No.	No.	No.	No.	No.	No.	No.	$
1908-1909	32,991,835	186,419,145	7,681	192,105,371	.....	41,450	27,271,840	626,059
1909-1910	27,271,840	204,285,596	36,795	205,820,851	19,000	.....	25,754,380	432,539
1910-1911	25,754,380	227,498,932	10,295	227,585,692	17,000	.....	25,660,915	470,197
1911-1912	25,660,915	248,906,934	128,468	252,718,242	15,000	22,625	21,940,450	517,646
Totals	111,678,970	867,110,607	183,239	878,230,156	51,000	64,075	100,627,585	2,046,441
verage	27,919,742	216,777,652	45,810	219,557,539	12,750	16,019	25,156,896	511,610
1912-1913	21,940,450	297,762,383	383,922	294,772,933	10,100	22,500	25,281,222	602,269

The revenue derived from goods manufactured in bond during the Fiscal Year ended March 31, 1913, and the four preceeding Years, was as follows :—

1908–1909	$71,669
1909–1910	77,811
1910–1011	77,840
1911–1912	84,720
1912–1913	91,460

Acetic Acid :—

The revenue derived from Acetic Acid during the Fiscal Year ended March 31, 1913, and the four preceding Fiscal Years, was as follows :—

1908–1909	$ 3,841
1909–1910	6,037
1910–1911	10,242
1911–1912	11,300
1912–1913	10,526

Inspection of Petroleum :—

The quantity of Petroleum and Naphtha inspected during the Fiscal Year was as follows :—

	Galls.
Petroleum	22,485,437.34
Naphtha	6,880,761.85
Total	29,366,199.19

Weights and Measures Gas and Electric Light :—

The usual special reports in relation to these services have been prepared, containing all statistical information.

The agregate revenue accrued from these services was $238,442.67 the cost of the three services being $224,345.53.

Prevention of Adulteration of Food and Agricutural Fertilizers :—

The usual supplementary report in relation to this service will be submitted, containing details of the work done and the report of the chief analyst.

Methylated Spirits :—

The quanlity of methylated spirits manufactured during the Fiscal Year was 247,760·10 proof gallons, and the sales 244,708·17 poof gallons. A statement details appears on page 60, 61 and 126.

The price of this denatured alcohol is practically the actual cost of manufacture and is as follows :—

Grade No 1. "Standard",—When consigned to points East of Toronto and West of Quebec, both inclusive, 65c. per Imperial gallon ; when consigned to points beyond Toronto and Quebec, 63c. per Imperial gallon.

Grade No. 1. "Benzine".—When consigned as above 55c. and 53c. per Imperial gallon respectively.

Grade No. 2. "Standard",—75c. per Imperial gallon.

Grade No. 2, "Coloured",—60c. per Imperial gallon.

APPENDIX A shows the consumption of, and revenue derived annually from spirits, tobacco and other goods subject to Excise, and of similar goods subject to duties of Customs, per head, of the population of the Dominion.

APPENDIX B contains, as usual, the details concerning illicit stills seized during the year.

APPENDIX C shows the amounts of Excise Revenue collected at each Out-Office and under various headings, separately.

I have the honour to be, sir,

Your obedient servant,

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.

TABLE showing the Annual Consumption per head of the undermentioned articles paying Excise and Customs Duties, and the Revenue per head derived annually.

Years.	Dominion of Canada.									
	Quantity.					Duty.				
	Spirits.	Beer.	Wines.	Tobacco.	Petroleum.	Spirits.	Beer.	Wines.	Tobacco.	Petroleum.
	Galls.	Galls.	Galls.	Lbs.	Galls.	$	$	$	$	$
1869	1·124	2·290	·115	1·755	·575	·761	·092	·037	·193	·041
1870	1·434	2·163	·195	2·190	1·103	·962	·085	·049	·259	·061
1871	1·578	2·490	·259	2·052	1·591	1·059	·095	·056	.336	·077
1872	1·723	2·774	·257	2·481	1·302	1·160	·108	·070	·422	·076
1873	1·682	3·188	·238	1·999	1·387	1·135	·120	·066	·350	·084
1874	1·994	3·012	·288	2·566	1·618	1·363	·119	·086	·442	·103
1875	1·394	3·091	·149	1·995	1·589	1 127	·114	·069	·428	·098
1876	1·204	2·454	·177	2·316	1·360	1·182	·098	·075	·513	·105
1877	·975	2·322	·096	2·051	1·103	·949	·109	·057	·446	·084
1878	·960	2·159	·096	1·976	.....	·927	·147	·052	.439	.....
1879	1·131	2·209	·104	1·954	.....	1·005	·125	·057	·449	.....
1880	·715	2·248	·077	1·936	.....	·772	·081	·055	·428	.....
1881	·922	2·293	·099	2·035	.....	·990	·081	·073	·443	.....
1882	1·009	2·747	·120	2·150	.....	1·084	·098	·092	·485	.....
1883	1·090	2·882	·135	2.280	.....	1·186	·103	·097	·473	.....
1884	·998	2·924	·117	2·476	.....	1·074	·104	082	·365	.....
1885	1·126	2·639	·109	2·623	.....	1·198	·111	·074	·393	.....
1886	·711	2·839	·110	2·052	.....	1·007	·091	·074	·502	.....
1887	·746	3 084	·095	2·062	.....	1 045	·100	·066	·514	.....
1888	·645	3·247	·094	2·093	.....	·944	·110	·066	·509	.....
1889	·776	3·263	·097	1·153	.....	1·107	·114	·068	·529	.....
1890	·883	3·360	·104	2·143	.....	1·257	·121	·072	·539	.....
1891	·745	3·790	·111	2·292	.....	1·094	·137	·080	·590	.....
1892	·701	3·516	·101	2·291	.....	1·156	·211	·075	·680	.....
1893	·740	3·485	·094	2·314	.....	1·235	·218	·070	·691	.....
1894	·742	3·722	·089	2·264	.....	1·235	·205	·060	·683	.....
1895	·666	3·471	·090	2·163	.....	1·124	·161	·056	·645	.....
1896	·623	3·528	·070	2·120	.....	1·159	·164	·047	·639	.....
1897	·723	3·469	·084	2·243	.....	1·341	·213	·041	·671	.....
1898	·536	3·808	·082	2·358	.....	1·306	·126	·041	·615	.....
1899	·661	3·995	·086	2·174	.....	1·367	·174	·045	·841	.....
1900	·701	4·364	·085	2·300	.....	1·455	·185	·044	·853	.....
1901	·757	4·680	·099	2·375	.....	1·574	·195	·047	·864	.....
1902	·786	5·035	·090	2·371	.....	1·631	·211	·048	·902	.....
1903	·848	4·592	·094	2·483	.....	1·766	·200	·049	·967	.....
1904	·917	4 739	·092	2·664	.....	1·913	·217	·049	1·005	.....
1905	·895	5·123	·093	2·768	.....	1·898	·214	·049	1·036	.....
1906	·898	5·484	·095	2·898	.....	1·879	·238	·052	1·100	.....
*1907 (nine months)	·977	5·765	·095	3 048	.....	2·035	·257	·054	1·317	.....
1908	·939	6·146	·102	3·066	.....	1·965	·268	·057	1·194	.....
1909	·860	5·708	·091	3·105	.....	1·794	·241	·050	1·101	.....
1910	·883	5·713	·105	3·183	.....	1·843	·242	·057	1·059	.....
1911	·948	5·999	·114	3·323	.....	1 988	·257	·059	1·157	.....
1912	1·030	6 598	·114	3·679	.....	2·170	·288	·063	1·336	.....
1913	1·112	7·005	·131	3·818	.....	2·340	·320	076	1·462	.....
Average	·967	3·765	·119	2.392	.....	1·346	·161	·061	·686	.....

* Calculated on basis of a month.

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT.
OTTAWA, June 1, 1912.

APPENDIX B.

STATEMENT of Seizures of Illicit Manufactures for the year ended March 31, 1913.

Division.	No.	Date.	Names.	Residence.	Schedule Value.	Remarks
		1912.			$ cts.	
Winnipeg.. ...	68	June 11.....	H. Cohen....	Winnipeg.....	231 00	
		1913.				
Quebec.....	630	January 14.....	Paul Sirois.....	Quebec, Ste Anne de la Pocatière..	4 28	Fine $100 imposed and paid.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX C—*Continued.*

STATEMENT showing the amount of Excise and other Revenues collected at each of the undermentioned Out-Offices, during the year March 31, 1913.

Divisions.	Out-Offices.	Licenses.	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Manufactures in Bond.	Other receipts.	Electric Light Inspection Fees.	Totals.
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Toronto	Barrie	100 00			1,420 50						1,520 50
	Hornby	100 00			3,161 25						3,261 25
	Orillia	100 00			283 50						383 50
	Sault Ste. Marie	350 00	42,727 47		21,900 00	981 40	1,112 90				67,071 77
	Whitby	50 00	3,657 28								3,707 28
Windsor	Chatham	175 00	37,836 53			628 11	615 74				39,255 38
	Kingsville	150 00				7,983 27	662 20				8,795 47
	Leamington	175 00				270 48	171 70	5,039 39	600 00		6,256 57
	Wallaceburg	1 00									1 00
Joliette	Berthierville	250 00	11,348 44						17,116 95		28,715 39
	L'Assomption	100 00				647 72	725 50				1,473 22
	L'Epiphanie	100 00				1,569 68	3,495 92				5,165 60
	St. Alexis	25 00				48 55					73 55
	St. Esprit	50 00				420 45					470 45
	St. Jacques	50 00				101 75					151 75
	St. Lin	100 00				3,851 74	1,297 00				5,248 74
	St. Roch	100 00				510 00					610 00
Montréal	Chambly Basin										
	Lachine										
	St. Jérôme	100 00	20,220 12								20,320 12
	St. Laurent										
	Ste. Thérèse										
	Valleyfield	175 00	101,170 32		11,658 30	87 92					113,091 54
Quebec	Chicoutimi	150 00	3,942 88			28 00	22 00		1 64		4,144 52
	Fraserville	150 00	42,926 71								43,076 71
	Gaspé	50 00	1,982 35								2,032 35
	Roberval	50 00	2,940 94								2,990 94
St. Hyacinthe	Farnham	150 00				2,386 16	721 60				3,257 76
	L'Ange-Gardien	50 00					93 00				143 00
	St. Cesaire	50 00									50 00
	St. Jean	175 00	19,292 62				21 90	1,522 28	362 25		21,374 05
	St. Ours	50 00				304 25					354 25
	Sorel	175 00	26,969 09								27,144 09
	Victoriaville	75 00	17,888 50						389 47		18,352 97

Sherbrooke	Granby	200 00				293,454 35	6,271 26		80 38	300,005
Three Rivers	Grand Mère	50 00	1,341 67							1,391 7
	La Tuque	50 00	8,569 90							8,619 90
	Louiseville	50 00	7,211 29							7,261 29
	St. Boniface	50 00				2,182 50				2,232 50
	St. Tite	50 00				201 20				251 20
	Shawinigan									
St. John	Bathurst									
	Campobello									
	Chatham									
	Clair									
	Fredericton									
	Moncton									
	Newcastle									
	Sackville									
	St. Stephens	50 00	1,342 71			166 50				1,559 21
	Sussex									
Halifax	Amherst	50 00				612 00				662 00
	Lunenburg									
	Parrsborough									
	Truro	50 00				1,490 20				1,540 20
	Weymouth									
	Windsor									
	Yarmouth	50 00				873 04	767 95			1,690 99
Pictou	Antigonish									
	New Glasgow									
	North Sydney									
	Sydney	250 00	6,513 27			78 12	165 75			7,007 14
Charlottetown	Georgetown									
	Souris									
	Summerside									
Winnipeg	Brandon	350 00	71,978 44	256 10	11,602 50	3,909 36	2,242 38			93,338 78
	Dauphin	50 00	8,106 40							8,156 40
	Morden	100 00	5,197 84							5,297 84
	Portage la Prairie	150 00	20,441 25			987 56	320 20			21,899 01
	Selkirk	50 00	2,801 76							2,851 76
	Virden	50 00	7,776 56							7,826 56
Calgary	Camrose	50 00	17,701 57							17,151 57
	Edmonton	800 00	170,105 03	12,923 70	29,389 80	21,179 90	5,857 45		116 00	240,971 88
	Fort Saskatchewan	50 30	1,756 60							1,806 60
	High River	50 00	1,363 15							1,413 15
	Lacombe	50 00	14,984 98							15,034 98
	Lethbridge	325 00	30,119 94	19,269 40	25,866 08	1,538 88	507 20			77,626 50
	Medicine Hat	100 00	16,272 70			1,004 64	371 90			17,752 24
	Pincher Creek	50 00	568 84							618 84
	Red Deer	50 00								50 00
	Stettler	100 00	925 01			2,184 84	848 85			4,358 70
	Strathcona									
	Taber	50 00	4,620 30							4,670 30
	Vermilion	50 00	2,245 37							2,295 37
	Wetaskiwin	50 00	11,533 86							11,583 86

APPENDIX C—*Concluded.*

STATEMENT showing the amount of Excise and other Revenues collected at each of the undermentioned Out-Offices during the year ended March 31, 1913.

Divisions.	Out-Offices.	Licences.	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Manufactures in Bond.	Other Receipts.	Electric Light Inspection Fees.	Totals.
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Moosejaw	Estevan	50 00	6,979 43						2 88		7,032 31
	Maple Creek										
	Melville	50 00	9,641 07								9,691 07
	North Battleford	75 00	1,182 37			463 26	133 80		2 88		1,857 31
	Prince Albert	175 00	30,230 18		5,941 50	123 20	21 00				36,490 88
	Regina	350 00	52,787 30		6,002 84	573 44	371 25				60,084 83
	Rosthern	50 00	11,787 65								11,837 65
	Saskatoon	300 00	47,731 10	11,739 00	19,672 72	1,475 88	479 20				81,397 90
	Swift Current	50 00	18,449 08						3 60		18,502 68
	Weyburn	50 00	10,678 73						3 60		10,732 33
Vancouver	Anaconda	50 00									50 00
	Cranbrook	150 00	18,323 81		60 00						18,533 81
	Fernie	200 00	13,730 44		12,855 00	402 36	402 00				27,589 80
	Golden	50 00	8,215 02								8,265 02
	Grand Forks	100 00			300 00						400 00
	Greenwood	50 00	13,166 91								13,216 91
	Kamloops	150 00	8,504 32		1,800 00	966 56	434 30				11,855 18
	Kelowna	50 00				1,158 64	639 94				1,848 58
	Merritt	50 00									50 00
	Michel	150 00	8,207 03		3,119 25						11,476 28
	Moyie	50 00			600 00						650 00
	Nelson	250 00	30,212 50		3,870 00	3,138 10	1,135 55				38,606 15
	New Westminster	275 00	8,942 58	421 30	11,783 40	10,903 06	3,336 90				35,662 24
	Phoenix	50 00			2,400 00						2,450 00
	Prince Rupert	75 00	6,904 19			339 36	110 60				7,429 15
	Princeton	50 00			750 00						800 00
	Revelstoke	275 00	10,504 62		1,587 39	682 64	277 00				13,326 65
	Rossland	150 00	6,813 20	300 00	1,430 85	1,206 80	336 50				10,237 35
	Trail	50 00			1,800 00						1,850 00
	Vernon	175 00	9,851 29		590 69	182 28	89 85				10,889 11

Victoria	Cumberland	50 00			2,400 00						2,450 00
	Ladysmith	50 00				915 78	281 40				1,247 18
	Nanaimo	400 00	4,666 84	898 90	10,490 73	3,199 26	1,057 00				20,712 73
	Sidney					835 79	380 70				1,216 49
		15,379 00	1,754,651 16	45,808 40	418,071 64	399,050 62	48,544 91	9,379 30	34,672 88		2,725,558 21

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

FINANCIAL RETURNS, 1912-1913

12—14

DR. No. 1.—GENERAL REVENUES ACCOUNT FOR THE YEAR ENDED MARCH 31, 1913. CR.

Memo of Refunds deducted below.	Amounts deposited to the credit of the Receiver General.	Balances due March, 31, 1913.	Totals.	Services.	Revenues of previous years not collected April 1, 1912.	Revenues accrued 1912-1913.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
157,034 27	21,488,464 30	21,294 47	21,509,758 77	Excise and Seizures, per Statement No. 3	19,777 20	21,489,981 57	21,509,758 77
10 48	102,107 62	257 67	102,365 29	Weights and Measures, per Statement Nos. 18 A and 18 B	92 72	102,272 57	102,365 29
	62,747 40		62,747 40	Gas Inspection, per Statement No. 20		62,747 40	62,747 40
1 50	75,343 55		75,343 55	Electric Light Inspection, per Statement No. 22		75,343 55	75,343 55
	7,901 05		7,901 05	Law Stamps, per Statement No. 8		7,901 05	7,901 05
		45 04	45 04	Bill Stamps, per Statement No. 7	45 04		45 04
12 00	3,518 00		3,518 00	Sundry Minor Revenues, per Statement No. 9		3,518 00	3,518 00
	118,077 77		118,077 77	Methylated Spirits, per Statement No. 25		118,077 77	118,077 77
	784 00	1,833 62	2,617 62	Ferry Licenses Revenue, per Statement No. 11	2,088 62	529 00	2,617 62
157,058 25	21,858,943 69	23,430 80	21,882,374 49		22,003 58	21,860,370 91	21,882,374 49
	157,058 25		157,058 25	....Less—Refunds as per Statement No. 15		157,058 25	157,058 25
	21,701,885 44		21,725,316 24	....Totals		21,703,312 66	22,725,316 24

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

DR. No. 2—GENERAL EXPENDITURES ACCOUNT FOR

Balance due to Collectors, &c., April 1, 1912.	Expenditures Authorized by the Department.			Balances due by Collectors, &c., March 31, 1913.	Totals.	Services.
	Salaries.	Contingencies.	Seizures.			
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	
1,273 30	478,120 08	257,821 84	185 46	343 98	737,744 60	Excise and Seizures, per Statement No. 4
.....	.....	.....	2,085 20	.....	2,085 20	Excise Seizures, distributed per Appendix B, Statement No. 2
.....	1,791 59	8,726 21	.....	.....	10,517 80	Preventive Service, per Statement No. 5
.....	3,070 75	18,912 44	.....	.....	21,983 19	Adulteration of Food, per Statement No 6 and Appendix B, Statement No. 4
.....	.....	879 58	.....	.....	879 58	Sundry Minor Expenditures, per Statement No. 10
.....	100,408 32	8,237 52	.....	16 66	108,662 50	Departmental Expenditures, per Statement No. 16
.....	74,317 60	57,027 11	.....	3 70	131,348 41	Weights and Measures, per Statement No. 19 A
.....	35,025 58	15,227 91	.....	212 88	50,466 37	Gas Inspection, per Statement No. 21
.....	17,162 44	25,550 44	.....	.....	42,712 88	Electric Light Inspection, per Statement No. 23
.....	.....	95,993 45	.....	.....	95,993 45	Methylated Spirits, per Statement No. 25
1,273 30	709,896 36	488,376 50	2,270 60	577 22	1,202,393 98	Totals .....

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

THE YEAR ENDED MARCH 31, 1913. CR.

Balances due by Collectors, &c., April 1, 1912.	Amounts disbursed by the Receiver-General, on requisition of the Department.	Deductions from Salaries for				Annuities.	Balances due to Collectors, &c., March 31, 1913.	Totals.
		Superannuation.	Insurance.	Retirement.	Guarantee.			
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
343 98	717,389 12	4,237 11	1,940 38	12,294 39	1,350 14	140 40	49 08	737,744 60
....	2,085 20	....	.. ....	....	....	.... ..	.. . ...	2,085 20
.....	10,514 92	....	....		2 88	. ...	.....	10,517 80
....	21,957 26	11 71	.....	.....	14 22	... .	.. . .	21,983 19
.....	879 58	....	.. ..	....	..... .	... .	.....	87 9 5
16 66	101,835 51	508 75	423 90	2,877 68	... .	....	.....	108,662 50
3 70	130,915 50	192 55	66 00	. .. .	170 66	.. ..	....	131,348 41
212 88	49,982 33	47 27	.. .. .	89 88	134 01	.....	.....	50,466 37
300 00	42,367 53	... . .	....	... .. .	45 35	....	. .....	42,712 88
....	95,993 45	.....	....	... .	... .	..... .	....	95,993 4
877 22	1,176,920 40	4,997 39	2,439 28	15,261 95	1,717 26	140 40	49 08	1,202,393 98

W. HIMSWORTH,
Deputy Minister.

EXCISE

DR. No. 3.—COLLECTION DIVISIONS

Balances due April 1, 1912.	Amount accrued during the Year, including License Fees.							
	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Acetic Acid.	Bonded Manufactures.	Seizures.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
.....	110,127 61	50 00	10,778 13	1,621 60	672 75	.....	2,146 42	.....
112 61	47,159 84	100 00	9,624 25	20,018 32	9,741 67	.....	2,867 63	.....
.....	354,902 71	300 00	98,474 62	7,891 38	5,793 70	.....	.....	.....
.....	344,241 34	100 00	71,392 24	694,287 50	37,032 13	.....	4,763 79	.....
.....	72,208 88	100 00	6,463 28	15,652 42	6,672 00	.....	2,918 84	.....
.....	86,416 10	200 00	72,151 79	288,576 96	93,831 52	.....	.....	.....
.....	345,522 11	100 00	19,358 10	1,176 90	1,504 28	.....	724 30	.....
.....	.....	250 00	8,452 37	3,987 29	2,098 37	.....	.....	.....
.....	206,314 61	100 00	32,099 76	1,326 83	219 50	.....	100 00	.....
.....	9,577 88	100 00	10,984 49	547 96	283 65	.....	.....	.....
.....	142,765 22	150 00	24,936 02	520 52	329 90	.....	.....	.....
.....	123,374 69	150 00	45,910 17	1,708 56	1,321 80	.....	.....	.....
.....	16,078 29	100 00	24,555 29	3,228 68	3,721 60	.....	.....	.....
.....	28,130 70	150 00	10,232 15	8,954 70	3,185 69	.....	.....	.....
.....	1,271,939 46	650 00	343,347 32	185,065 69	54,864 90	.....	38,518 25	.....
.....	563,364 18	100 00	52,818 13	32,427 70	10,679 87	.....	5,489 39	.....
522 89	.....	.....	.....	.....	.....	.....	.....	.....
635 50	3,662,123 62	2,700 00	841,578 11	1,266,993 01	231,953 33	.....	57,528 62	.....
.....	85,482 86	.....	.....	15,249 11	14,094 58	.....	.....	.....
1,722 61	2,233,188 16	10,502 30	386,878 58	7,171,215 56	266,239 10	10,525 60	9,892 44	689 01
.....	456,206 74	150 00	34,923 41	227,248 93	11,102 58	.....	3,603 22	170 00
.....	123,572 48	50 00	13,543 50	330,302 69	18,482 19	.....	300 00	100 00
.....	124,061 48	.....	2,130 00	6,722 61	1,078 50	.....	2,250 07	.....
54 27	76,872 38	50 00	378 00	4,592 49	1,615 73	.....	.....	100 00
3,295 57	.....	.....	.....	.....	.....	.....	.....	.....
5,072 45	3,099,384 10	10,752 30	437,853 49	7,755,331 39	312,612 68	10,525 60	16,045 73	1,059 01
.....	178,173 57	100 00	19,800 00	5,263 89	8,052 18	.....	3,091 52	435 00
1,442 62	.....	.....	.....	.....	.....	.....	.....	.....
1,442 62	178,173 57	100 00	19,800 00	5,263 89	8,052 18	.....	3,091 52	435 00
.....	48,514 80	150 00	44,611 56	4,117 36	1,664 73	.....	.....	.....
.....	6,513 27	.....	.....	1,757 91	622 85	.....	.....	13 60
5,860 50	.....	.....	.....	.....	.....	.....	.....	.....
5,860 50	55,028 07	150 00	44,611 56	5,875 27	2,287 58	.....	.....	13 60
.....	129 65	.....	.....	12,208 92	.....	.....	.....	.....
.....	1,106,178 09	556 10	174,794 54	47,726 80	15,287 34	.....	13,028 55	151 25
5,564 04	469,063 08	42,073 30	128,658 88	28,874 30	9,866 05	.....	.....	100 00
.....	253,579 28	11,939 00	40,347 06	3,234 98	1,509 85	.....	.....	.....

1912–1913.

IN ACCOUNT WITH REVENUES. CR.

Sundries.	Total Duties accrued.	Total Debits.	Divisions.	Deposited to Credit of Receiver General.	Balances due March 31, 1913.	Total Credits.
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
2,915 30	128,311 81	128,311 81	Belleville	128,311 81		128,311 81
750 00	90,261 71	90,374 32	Brantford	90,261 71	112 61	90,374 32
3,382 21	470,744 62	470,744 62	Guelph	470,744 62		470,744 62
3,170 30	1,154,987 30	1,154,987 30	Hamilton	1,154,987 30		1,154,987 30
1,179 00	105,194 42	105,194 42	Kingston	105,194 42		105,194 42
353 10	541,529 47	541,529 47	London	541,529 47		541,529 47
792 00	369,177 69	369,177 69	Ottawa	369,177 69		369,177 69
1 50	14,789 53	14,789 53	Owen Sound	14,789 53		14,789 53
1,133 00	241,293 70	241,293 70	Perth	241,293 70		241,293 70
101 00	21,594 98	21,594 98	Peterborough	21,594 98		21,594 98
400 00	169,101 66	169,101 66	Port Arthur	169,101 66		169,101 66
1,726 00	174,191 22	174,191 22	Prescott	174,191 22		174,191 22
125 10	47,808 96	47,808 96	St. Catharines	47,808 96		47,808 96
200 00	50,853 24	50,853 24	Stratford	50,853 24		50,853 24
25,697 70	1,920,083 32	1,920,083 32	Toronto	1,920,083 32		1,920,083 32
28,113 90	632,993 17	632,993 17	Windsor	632,993 17		632,993 17
		522 89	Suspense Account		522 89	522 89
70,040 11	6,132,916 80	6,133,552 30	*Ontario*	6,132,916 80	635 50	6,133,552 30
16,711 20	131,537 75	131,537 75	Joliette	130,501 67	1,036 08	131,537 75
4,650 03	10,093,780 78	10,095,503 59	Montreal	10,093,554 19	1,949 20	10,095,503 39
1,653 10	735,057 98	735,057 98	Quebec	734,803 23	254 75	735,057 98
302 00	486,652 86	486,652 86	Sherbrooke	486,652 86		486,652 86
1,102 25	137,344 91	137,344 91	St. Hyacinthe	137,341 91		137,344 91
400 00	84,008 60	84,062 87	Three Rivers	84,008 60	54 27	84,062 87
		3,295 57	Suspense Account		3,295 57	3,295 57
24,818 58	11,668,382 88	11,673,455 33	*Quebec*	11,666,865 46	6,589 87	11,673,455 33
904 40	215,820 56	215,820 56	St. John	215,820 56		215,820 56
		1,442 62	Suspense Account		1,442 62	1,442 62
904 40	215,820 56	217,263 18	*New Brunswick*	215,820 56	1,442 62	217,263 18
300 00	99,358 45	99,358 45	Halifax	99,358 45		99,358 45
200 00	9,107 63	9,107 63	Pictou	9,107 63		9,107 63
		5,860 50	Suspense Account		5,860 50	5,860 50
500 00	108,466 08	114,326 58	*Nova Scotia*	108,466 08	5,860 50	114,326 58
	12,338 57	12,338 57	*Charlottetown, P.E.I.*	12,338 57		12,338 57
2,430 00	1,360,152 67	1,360,152 67	*Winnipeg—Manitoba*	1,360,152 67		1,360,152 67
1,450 00	680,085 61	685,649 65	*Calgary—Alberta*	680,085 66	5,563 99	685,649 65
900 00	311,510 17	311,510 17	*Moose Jaw—Saskatchewan*	311,510 17		311,510 17

EXCISE

DR. No. 3—COLLECTION DIVISIONS

Balances due April 1, 1912.	Amount accrued during the Year, including License Fees.							
	Spirits.	Malt Liquor.	Malt.	Tobacco.	Cigars.	Acetic Acid.	Bonded Manufactures.	Seizures.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
1,202 09	472,701 11	74,464 80	121,629 35	40,224 70	14,684 39	.....	1,765 95	304 00
.....	174,426 43	6,651 80	54,398 46	26,447 70	6,015 30	.....	.....	.....
1,202 09	647,127 54	81,116 60	176,027 81	66,672 40	20,699 69	.....	1,765 95	304 00
.....	3,355 12	50 00	853 12	.....	.....	.....	.....	.....
19,777 20	9,474,142 12	149,437 30	1,864,524 57	9,192,180 96	602,268 70	10,525 60	91,460 37	2,062 86
.....	21,460 35	.....	133,965 02	453 88	100 00	.....	.....	.....
.....	9,452,681 77	149,437 30	1,730,559 55	9,191,727 08	602,168 70	10,525 60	91,460 37	2,062 86

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

1912–1913—*Concluded.*

IN ACCOUNT WITH REVENUES—*Concluded.* CR.

Sundries.	Total Duties accrued.	Total Debits.	Divisions.	Deposited to Credit of Receiver General.	Balances due March 31, 1913.	Total Credits.
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
1,861 00	727,635 30	728,837 39	Vancouver	727,635 50	1,201 89	728,837 39
375 00	268,314 69	268,314 69	Victoria	268,314 59	0 10	268,314 69
2,236 00	995,949 99	997,152 08	*British Columbia*	995,950 09	1,201 99	997,152 08
100 00	4,358 24	4,358 24	*Yukon*	4,358 24		4,358 24
103,379 09	21,489,981 57	21,509,758 77	Totals	21,488,464 30	21,294 47	21,509,758 77
1,055 02	157,034 27		Less refunds as per statement No. 16			
102,324 07	21,332,947 30		Net Revenue			

W. HIMSWORTH,
Deputy Minister.

EXCISE

DR. No. 4.—COLLECTION DIVISIONS

Balances due by Collectors, April 1, 1912.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for				Annuities.	Balances due to Collectors, March 31, 1913.	Totals.	Divisions.
		Superannuation.	Insurance.	Retirement.	Guarantee.				
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	
43 98	16,088 40	141 92	53 34	345 90	35 40	.....	.....	16,708 94	Belleville.
.....	9,078 06	89 76	.....	260 76	24 96	.....	.....	9,453 54	Brantford.
.....	22,881 53	302 82	.....	255 27	49 32	.....	.....	23,488 94	Guelph.
.....	26,668 72	159 63	113 68	761 64	80 64	.....	.....	27,784 31	Hamilton.
.....	8,439 93	110 83	.....	109 71	24 48	.....	.....	8,684 95	Kingston.
.....	24,567 02	226 32	149 28	368 88	54 17	.....	.....	25,365 67	London.
.....	9,315 79	38 07	.....	313 74	27 12	.....	.....	9,694 72	Ottawa.
.....	7,235 75	54 36	.....	116 16	15 84	.....	.....	7,422 11	Owen Sound.
.....	12,966 79	26 07	63 36	379 14	36 48	.....	.....	13,471 84	Perth.
.....	4,063 54	15 92	.....	91 59	9 12	.....	.....	4,180 17	Peterborough.
.....	4,830 37	.....	.....	210 51	12 24	.....	.....	5,053 12	Port Arthur.
.....	13,196 99	62 80	44 64	433 98	35 52	140 40	.....	13,914 33	Prescott.
.....	6,734 00	75 60	.....	126 12	15 12	.....	.....	6,950 84	St. Catherines.
.....	8,263 58	26 31	273 60	262 20	28 08	.....	.....	8,853 77	Stratford.
.....	51,279 47	470 25	224 64	1,299 16	135 00	.....	.....	53,408 52	Toronto.
.....	32,235 29	254 28	240 24	751 38	88 57	.....	49 08	33,618 84	Windsor.
.....	8,173 14	48 01	.....	.....	20 25	.....	.....	8,241 40	District Inspectors
43 98	266,018 37	2,102 95	1,162 78	6,086 14	692 31	140 40	49 08	276,296 01	*Ontario*
.....	13,833 41	15 80	35 04	409 93	24 69	.....	.....	14,318 87	Joliette.
.....	65,800 02	590 59	215 30	1,557 61	167 85	.....	.....	68,331 37	Montreal.
.....	27,780 93	190 32	15 10	567 17	53 85	.....	.....	28,607 37	Quebec.
.....	15,282 61	36 00	263 76	555 35	34 69	.....	.....	16,172 41	St. Hyacinthe.
.....	8,704 09	73 92	.....	225 09	24 48	.....	.....	9,027 58	Sherbrooke.
.....	4,604 04	51 84	.....	55 47	11 88	.....	.....	4,723 23	Three Rivers.
.....	5,768 69	56 00	.....	125 00	18 00	.....	.....	5,967 69	District Inspectors
.....	141,773 79	1,014 47	529 20	3,495 62	335 44	.....	.....	147,148 52	*Quebec*
.....	13,376 99	188 02	.....	183 99	37 08	.....	.....	13,786 08	St. John.
.....	2,832 55	56 00	.....	.....	8 25	.....	.....	2,896 80	District Inspector.
.....	16,209 54	244 02	.....	183 99	45 33	.....	.....	16,682 88	*New Brunswick*
.....	13,525 99	250 11	.....	22 44	36 00	.....	.....	13,834 54	Halifax.
.....	3,535 35	27 96	.....	94 92	9 36	.....	.....	3,667 59	Pictou.
	17,061 34	278 07	.....	117 36	45 36	.....	.....	17,502 13	*Nova Scotia*
100 00	2,742 96	.....	.....	65 70	8 16	.....	.....	2,916 82	*Charlottetown, P.E.I.*
200 00	24,282 85	169 50	77 52	708 75	59 52	.....	.....	25,498 14	Winnipeg.
.....	12,197 61	6 52	.....	320 90	20 76	.....	.....	12,545 79	Calgary.
.....	7,088 17	23 76	.....	180 90	16 48	.....	.....	7,309 31	Moose Jaw.
.....	7,067 65	33 30	.....	.....	16 50	.....	.....	7,117 45	District Inspector.
200 00	50,636 28	233 08	77 52	1,210 55	113 26	.....	.....	52,470 69	*Manitoba, Alberta and Saskatchewan*

SESSIONAL PAPER No. 12

1912–1913.

IN ACCOUNT WITH EXPENDITURES. CR.

Balances due to Collectors, April 1, 1912.	Expenditures authorized by the Department.						Balances due by Collectors, March 31, 1913.	Totals.
	Salaries.	Seizures Expenditures.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
	14,080 60		800 62		1,616 05	167 69	43 98	16,708 94
	8,644 48		370 04		264 05	174 97		9,453 54
	21,910 92		826 64	180 00	232 45	338 93		23,488 91
	27,345 54		120 00		51 85	266 92		27,784 31
	8,166 00		411 29		41 00	66 66		8,684 95
96 70	23,284 91		1,408 00		241 00	332 06		25,365 67
	8,779 72	2 70	750 00		74 10	88 20		9,694 72
	6,849 96		308 98		183 60	79 57		7,422 11
	11,295 91		639 59	368 34	789 07	378 93		13,471 84
	2,629 92		1,206 00		256 10	88 15		4,180 17
	4,212 42		200 00		425 35	215 35		5,053 12
	12,816 69		860 73		70 27	166 64		13,914 33
	6,624 72		55 00	60 00	113 70	97 42		6,950 84
	8,399 79		94 00		201 80	155 18		8,853 77
	49,321 65		2,731 62		887 25	468 00		53,408 52
49 08	30,519 19		2,249 98		345 77	454 82		33,618 84
	6,834 47		52 00	200 00	1,099 32	55 61		8,241 40
145 78	251,716 89	2 70	13,084 49	808 34	6,898 73	3,595 10	43 98	276,296 01
266 99	9,076 50		4,048 65		314 15	612 58		14,318 87
860 53	56,167 97	7 15	8,846 16		1,201 06	1,248 50		68,331 37
	20,361 04	128 80	6,800 06		739 55	577 92		28,607 37
	12,916 85		1,804 94	345 00	872 65	232 97		16,172 41
	8,205 66	3 25	60 00		523 30	235 37		9,027 58
	3,712 35		696 39		155 35	159 14		4,723 23
	5,300 00				573 55	94 14		5,967 69
1,127 52	115,740 37	139 20	22,256 20	345 00	4,379 61	3,160 62		147,148 52
	13,100 06	31 90	460 00		41 30	152 82		13,786 08
	2,800 00				58 35	38 45		2,896 80
	15,900 06	31 90	460 00		99 65	191 27		16,682 88
	13,574 76				133 85	125 93		13,834 54
	3,299 88		82 50		186 25	98 96		3,667 59
	16,874 64		82 50		320 10	224 89		17,502 13
	2,689 51		69 86		34 00	23 45	100 00	2,916 82
	21,660 57	11 60	2,566 90	60 00	470 95	528 12	200 00	25,498 14
	6,748 15		3,667 13		1,244 80	885 71		12,545 79
	4,419 81		1,437 30	120 00	1,124 75	207 45		7,309 31
	4,466 60		12 00		2,533 90	104 95		7,117 45
	37,295 13	11 60	7,683 33	180 00	5,374 40	1,726 23	200 00	52,470 69

EXCISE

DR. No. 4.—COLLECTION DIVISIONS

Balances due by Collectors, April 1, 1912.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for				Annuities.	Balances due to Collectors, March 31, 1913.	Totals.	Divisions.
		Superannuation.	Insurance.	Retirement.	Guarantee.				
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	
.. ..	25,976 01	42 00	170 88	974 09	72 00	.....	.....	27,234 98	..Vancouver.. .. .
.....	8,865 07	142 20	.....	110 94	22 08	.....	... ...	9,140 29	..Victoria . .....
.....	4,489 40	56 00	. .....	.. ...	9 00	.....	.....	4,554 40	..District Inspector.
.....	39,330 48	240 20	170 88	1,085 03	103 08	...	.....	40,929 67	..*British Columbia*..
.....	942 80	.....	....	50 00	7 20	.....	.....	1,000 00	..*Yukon*.. . .....
.....	214 30	... .	.....	....	.... ..	.....	.....	214 30	..Inspector of Bonded Factories ....
.....	1,516 30	.....	.....	....	.....	.....	.....	1,516 30	..Inspector of Breweries and Malt Houses. .....
.....	2,367 29	62 32	... .	.....	.. ..	.. .	.....	2,429 61	..Inspector of Distilleries .....
.....	4,069 84	62 00	.....	.....	....	.....	.....	4,131 84	..Inspector of Tobacco Factories.....
343 98	542,883 29	4,237 11	1,940 38	12,294 39	1,350 14	140 40	49 08	563,238 77	..Total of Divisions, &c..... . .....
.....	15,687 71	.....	..... .	.....	.....	.....	.....	15,687 71	..General Expenditures.....
.....	422 80	.....	.....	.....	.....	....	.....	422 80	..Legal Expenses. ..
.....	8,368 25	.....	.....	.....	.....	...	.....	8,368 25	..Printing.....
.....	2,492 26	.....	.....	.....	.....	.....	.....	2,492 26	.Stationery. .. ....
.....	3,886 87	.....	.....	. .....	.....	....	.....	3,886 87	..Commission to Customs Officers.. ..
.....	14,852 99	.....	... .	.....	.....	.....	.....	14,852 99	..Duty-pay to Officers in charge of most important establishments. .
.....	8,908 54	.....	.....	... .	.....	.....	.....	8,908 54	..Provisional Allowance. . ...
.. ..	9 73	.... ..	.....	... .	.....	.....	.....	9 73	..Special Translation
.....	119,676 68	.....	.. ..	. ....	.....	... .	.....	119,676 68	..Printing Tobacco Stamps..... ...
.....	200 00	.....	.....	....	.....	.. .	.....	200 00	..Grant H. H. Special vote.....
343 98	717,389 12	4,237 11	1,940 38	12,294 39	1,350 14	140 40	49 08	737,744 60	..Grand Totals.....

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

1912-13—*Concluded.*

IN ACCOUNT WITH EXPENDITURES—*Concluded.* CR.

Balances due to Collectors, April 1, 1912.	Expenditures authorized by the Department.						Balances due by Collectors, March 31, 1913.	Totals.
	Salaries.	Seizures Expenditures.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
	21,600 55		2,385 64	550 00	1,588 09	1,110 70		27,234 98
	7,147 29		1,608 12		84 90	299 98		9,140 29
	2,800 00				1,693 90	60 50		4,554 40
	31,547 81		3,993 76	550 00	3,366 89	1,471 18		40,929 67
	1,000 00							1,000 00
	175 00				39 30			214 30
	300 00				1,187 45	28 85		1,516 30
	1,780 64			85 00	558 02	5 95		2,429 61
	3,100 00				996 64	35 20		4,131 84
1,273 30	478,120 08	185 40	47,630 14	1,968 34	23,254 79	10,462 74	343 98	563,238 77
						15,687 71		15,687 71
						422 80		422 80
						8,368 25		8,368 25
						2,492 26		2,492 26
						3,886 87		3,886 87
						14,852 99		14,852 99
						8,908 54		8,908 54
						9 73		9 73
						119,676 68		119,676 68
						200 00		200 00
1,273 30	478,120 08	185 40	47,630 14	1,968 34	23,254 79	184,968 57	343 98	737,744 60

W. HIMSWORTH,
Deputy Minister.

PREVENTIVE SERVICE, 1912-1913.

DR. No. 5.—IN ACCOUNT WITH EXPENDITURES. CR,

Amount received from Department to meet Expenditures.	Guarantee.	Totals.	—	Expenditures authorized by the Department.				Totals.
				Salaries.	Special Assistance.	Travelling Expenses.	Sundries.	
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$cts.	$ cts.	$ cts.
			Ottawa					
			Owen Sound					
			Prescott					
788 71	2 88	791 59	Toronto	791 59				791 59
504 74		504 74	Johette		495 74	9 00		504 74
625 40		625 40	Montreal		600 00	25 40		625 40
2,692 70		2,692 70	Quebec		2,638 20	54 50		2,692 70
600 00		600 00	St. Hyacinthe		600 00			600 00
33 60		33 60	Sherbrooke			33 60		33 60
1,473 80		1,473 80	St. John, N.B.	1,000 00	300 00	170 65	3 15	1,473 80
265 15		265 15	Halifax		260 65	4 50		265 15
1,166 71		1,166 71	Picton		1,016 59	147 50	2 62	1,166 71
			Charlottetown					
629 10		629 10	Winnipeg		600 00	29 10		629 10
799 92		799 92	Vancouver		799 92			799 92
935 09		935 09	General				935 09	935 09
10,514 92	2 88	10,517 80	Totals	1,791 59	7,311 10	474 25	940 86	10,517 80

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH
Deputy Minister.

DR. No. 6.—IN ACCOUNT WITH EXPENDITURES. CR.

Balance due by Inspectors April 1, 1912.	Amount received from Department to meet Expenditures.	Superannuation.	Guarantee.	Totals.	—	Expenditures authorized by the Department.					Balance due by Inspectors March 31, 1913.	Totals.
						Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
$ cts	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
	3,946 96			3,946 96	Chief Analyst		725 50		341 25	2,880 21		3,946 96
	357 25		1 08	358 33	Kingston, Ont.	200 00			85 55	72 78		358 33
	330 25		1 08	331 33	London, Ont.	200 00			58 47	72 86		331 33
	253 29			253 29	Ottawa, Ont.				145 92	107 37		253 29
	19 49			19 49	Seaforth, Ont.				11 85	7 64		19 49
	414 77		1 08	415 85	Toronto, Ont.	200 00			49 85	166 00		415 85
	813 29	7 71	1 08	822 08	Montreal, Que.	387 43	22 50		189 15	223 00		822 08
	672 89		1 08	673 97	Quebec, Que.	300 00		120 00	90 85	163 12		673 97
	446 98		1 08	448 06	St. Hyacinthe, Que.	200 00			181 18	66 88		448 06
	404 22	4 00	1 08	409 30	St. John, N.B.	200 00			141 20	68 10		409 30
	664 57		1 08	665 65	Halifax, N.S.	350 00			219 85	95 80		665 65
	284 62		1 08	285 70	Charlottetown, P.E.I.	200 00			27 35	58 35		285 70
	78 19		0 18	78 37	Calgary, Alta.	33 32			31 05	14 00		78 37
	366 97		1 08	368 05	Winnipeg, Man.	200 00			74 45	93 60		368 05
	386 82		1 08	387 90	Nelson, B.C.	200 00			57 40	130 50		387 90
	298 22		1 08	299 30	Vancouver, B.C.	200 00			23 15	76 15		299 30
	281 47		1 08	282 55	Victoria, B.C.	200 00			3 50	79 05		282 55
	3,286 74			3,286 74	Printing					3,286 74		3,286 74
	262 64			262 64	Stationary					262 64		262 64
	8 28			8 28	Special Translation					8 28		8 28
	8,157 50			8,157 50	General					8,157 50		8,157 50
	165 43			165 43	Ste. Perpétue		125 00		37 50	2 93		165 43
	56 42			56 42	Jolicette		25 00		7 50	23 92		56 42
	21,957 26	11 71	14 22	21,983 19		3,070 75	898 00	120 00	1,777 02	16,117 42		21,983 19

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

BILL STAMPS, 1912–1913.

DR. No. 7.—BILL STAMPS DISTRIBUTORS in account with the Inland Revenue Department. CR.

Balances, April 1, 1912.		Totals.		Balances, March 31, 1913.		Totals.
Stamps on hand.	Cash on hand.			Stamps on hand.	Cash on hand.	
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
1,372 77		1,372 77	Post Office Department	1,372 77		1,372 77
	11 54	11 54	Belleville, ex-Collector E. R. Benjamin		11 54	11 54
	33 50	33 50	Three Rivers, ex-Collector B. Lasalle		33 50	33 50
160 00		160 00	McLeod, Colonel J. F,, Fort McLeod	160 00		160 00
1,532 77	45 04	1,577 81	Totals	1,532 77	45 04	1,577 81

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

LAW STAMPS, 1912-13.

12—2

Dr. No. 8.—Law Stamps in account with the Inland Revenue Department. Cr.

Stamps on hand April 1, 1912.	Stamps received from Department	Totals.		Commission of 5 per cent allowed by Department on stamps sold.	Deposited to the Credit of the Receiver General.	Stamps on hand March 31, 1913.	Totals.
$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.
82 55	1,700 00	1,782 55	Cameron, R., Registrar, Supreme Court		1,727 90	54 65	1,782 55
	4,269 90	4,269 90	Morse, Charles, Registrar, Exchequer Court	22 10	4,194 00	53 80	4,269 90
7,346 95	500 00	7,846 95	Controller, Dawson, Yukon Territorial Court		1,979 15	5,867 80	7,846 95
7,429 50	6,469 90	13,899 40	Totals	22 10	7,901 05	5,976 25	13,899 40

Inland Revenue Department,
Ottawa, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

DR. No. 9.—SUNDRY MINOR REVENUES, 1912-13. CR.

Accrued during the year ended March 31, 1913.	Totals.	——	Deposited to the Credit of the Receiver General.	Totals.
$ cts.	$ cts.		$ cts.	$ cts.
881 00	881 00	Registration of Agricultural Fertilizers Fees $541.00 —Licenses $340.00	881 00	881 00
327 00	327 00	Adulteration of Food Fees $212.00—Penalties $115.00	327 00	327 00
254 00	254 00	Casual Revenue	254 00	254 00
1,601 00	1,601 00	Patent Medicines Registration Fees	1,601 00	1,601 00
455 00	455 00	Commercial Feeding Stuffs Fees $140.00—Licenses $315.00	455 00	455 00
3,518 00	3,518 00	Totals	3,518 00	3,518 00

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

DR. No. 10.—SUNDRY MINOR EXPENDITURES, 1912 13. CR.

Amounts received from the Department to meet Expenditures.	Totals.	——	Printing and Stationery.	Contingencies	Totals.
$ cts.	$ cts.		$ cts.	$ cts.	$ cts.
37 20	37 20	Sundries		37 20	37 20
334 45	334 45	Export of Electric Power		334 45	334 45
440 00	440 00	Patent Medicines Act		440 00	440 00
67 68	67 68	" Printing	67 68		67 68
25	25	" Stationery	25		25
879 58	879 58		67 93	811 65	879 58

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

DR. No. 11.—FERRY LICENSES, REVENUE FOR 1912-1913. CR.

Balances due April 1, 1912.	Accrued during the year ended March 31, 1913.	Totals.	——	Deposited to the credit of the Receiver General.	Balances due March 31, 1913.	Totals.
$ cts.	$ cts.	$ cts.	*Ferries.*	$ cts.	$ cts.	$ cts.
.....	15 00	15 00	Buckingham and Cumberland	15 00	.....	15 00
.....	50 00	50 00	Buffalo and Point Abinot	50 00	.....	50 00
45 83	.....	45 83	Clair Station and Kent	.....	45 83	45 83
.....	10 00	10 00	Courtright and St. Clair	10 00	.....	10 00
.....	10 00	10 00	Cross Point and Campbellton	10 00	.....	10 00
20 00	.....	20 00	Edmundston and Maine	.....	20 00	20 00
.....	50 00	50 00	Fort Erie and Buffalo	50 00	.....	50 00
.....	50 00	50 00	Fort Frances	50 00	.....	50 00
1,736 79	.....	1,736 79	Hull (old lease)	.....	1,736 79	1,736 79
.....	50 00	50 00	Lapasse	50 00	.....	50 00
.....	6 00	6 00	Montebello and Alfred	6 00	.....	6 00
.....	30 00	30 00	Niagara and Youngstown	30 00	.....	30 00
.....	1 00	1 00	Ouellette Street, Detroit	1 00	.....	1 00
1 00	.....	1 00	Pembroke and Allumette Island (old lease)	.....	1 00	1 00
.....	130 00	130 00	Pembroke and Allumette Island (new lease)	130 00	.....	130 00
.....	1 00	1 00	Prescott and Ogdensburg	1 00	.....	1 00
.....	25 00	.....25 00	Rainy River	25 00	.....	25 00
255 00	.....	255 00	Rockliffe and Gatineau	255 00	.....	255 00
.....	100 00	100 00	Sault Ste. Marie	100 00	.....	100 00
30 00	.....	30 00	St. Leonard and Van Buren	.....	30 00	30 00
.....	1 00	1 00	Walkerville and Detroit	1 00	.....	1 00
2,088 62	529 00	2,617 62	.....	784 00	1,833 62	2,617 62

INLAND REVENUE DEPARTMENT,
OTTAWA June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

No. 12.—STATEMENT showing the quantities of the several articles subject 1911, 1912, 1913, and

Articles Subject to Excise Duty.	1911. Quantities. Ex-manufactory.	Ex-warehouse.	Totals.	Duty.
	Gallons.	Gallons.	Gallons.	$ cts.
Spirits	7,058	4,146,452	4,153,510	7,864,335 27
	* Imported	151,387	151,387	45,416 21
Totals	7,058	4,297,839	4,304,897	7,909,751 48
Malt Liquor, the duty being paid on malt	41,752,448		41,752,448	46,818 01
	Lbs.	Lbs.	Lbs.	
Malt		101,525,430	101,525,430	1,523,271 89
	No.	No.	No.	
Cigars—				
Foreign		950,905	950,905	5,705 43
Canadian		94,000	94,000	282 00
Under amended rates of duty (1909)	126,132,892	100,407,895	226,540,787	453,159 49
Totals	126,132,892	101,452,800	227,585,692	459,146 92
Cigarettes—				
Under amended rates of duty (1909)	569,205,170	16,730,200	585,935,370	1,416,070 50
	Lbs.	Lbs.	Lbs.	
Tobacco from Foreign leaf		1,091	1,091	272 75
Canadian twist		19,181	19,181	959 05
Tobacco under amended rates of duty (1909)	10,999,196	7,500,886	18,500,082	925,004 28
Snuff " " "	382,968		382,968	19,148 40
Totals	11,382,164	7,521,158	18,903,322	2,361,454 98
Raw leaf tobacco, Foreign		15,012,704	15,012,704	4,239,736 64
Other materials		1,123,383	1,123,383	179,741 28
Total duties on tobacco and cigarettes				6,780,932 90
Vinegar				74,564 51
Acetic acid				10,141 94
Licenses, Spirits				3,625 00
" Malt Liquor				6,075 00
" Malt				6,200 00
" Cigars				11,050 00
" Tobacco				3,207 00
" Bonded Manufactures				3,275 00
" Acetic Acid				100 00
Grand total duty				16,838,159 65

* Spirits imported for use in the manufacture of crude fulminate, on which duty at a rate of 30 cents

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

to Excise Duty taken for consumption during the fiscal years ended March 31, the duty accrued thereon.

1912.				1913.			
Quantities.			Duty.	Quantities.			Duty.
Ex-manufactory.	Ex-warehouse.	Totals.		Ex-manufactory.	Ex-warehouse.	Totals.	
Gallons.	Gallons.	Gallons.	$ cts.	Gallons.	Gallons.	Gallons.	$ c s.
9,317	4,534,785	4,544,102	8,655,636 60	2,508	4,999,937	5,002,445	9,470,642 12
.....	27,597	27,597	8,279 22	.. ..	.....	.....	.....
9,317	4,562,382	4,571,699	8,663,915 82	2,508	4,999,937	5,002,445	9,470,642 12
47,518,647	.....	47,518,647	81,156 14	52,314,400	.. ..	52,314,400	143,612 30
Lbs.	Lbs.	Lbs.		Lbs.	Lbs.	Lbs.	
347,576	113,681,947	114,029,523	1,710,796 62	4,433	123,916,174	123,920,607	1,859,124 57
No.	No.	No.		No.	No.	No.	
.. ..	176,825	176,825	1,060 95	.....	113,500	113,500	681 00
.....	.....	.....	.....	.....	.....	.....	.....
158,584,925	93,956,492	252,541,417	505,109 88	188,391,148	106,268,285	294,659,433	589,337 70
158,584,925	94,133,317	252,718,242	506,170 83	188,391,148	106,381,785	294,772,933	590,018 70
755,790,845	26,872,996	782,663,841	1,889,376 74	947,426,257	30,317,044	977,743,301	2 357,705 81
Lbs.	Lbs.	Lbs.		Lbs.	Lbs.	Lbs.	
....	168	168	42 00	....	....	.....	.....
.....	17,098	17,098	854 90	.....	17,535	17,535	876 75
12,905,153	7,962,559	20,867,712	1,043,385 75	13,545,167	8,148,942	21,694,109	1,084,705 68
534,068	....	534,068	26,703 40	659,992	.. ..	659,992	32,999 60
13,439,221	7,979,825	21,419,046	2,960,362 79	14,205,159	8,166,477	22,371,636	3,476,287 84
....	17,491,373	17,491,373	4,947,610 17	.....	19,232,231	19,232,231	5,453,935 76
.....	1,372,144	1,372,144	219,543 04	.. ..	1,615,596	1,615,596	258,495 36
.....	....	... .	8,127,546 00	.. ..	.....	.....	9,188,718 96
... .	....	....	81,945 41	.....	.....	.....	88,760 37
.....	.....	.....	11,149 95	.. ..	... .	.....	10,475 60
.....	.....	.....	3,750 00	.....	... .	... .	3,500 00
.....	.....	....	5,600 00	....	....	.....	5,825 00
.....	.....	....	5,750 00	.....	....	... .	5,400 00
....	... .	... .	11,475 00	....	.....	.....	12,250 00
....	.. . .	.....	3,230 00	....	....	.....	3,462 00
.....	.....	.. . .	2,775 00	....	.....	.....	2,700 00
.....	....	.....	150 00	.....	.....	.....	50 00
.....	.....	.....	19,215,410 77	.....	.....	.....	21,384,539 62

per gallon was collected and afterwards refunded on the exportation of the fulminate.

W. HIMSWORTH,
Deputy Minister.

No. 13.—Amounts deposited monthly to the credit of the Receiver General, on

—	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	$ cts.	$ cts.	$ cts.	$ cts.
April:—				
Excise	422,109 07	750,778 20	15,037 76	7,376 16
" Seizures		40 00		
Ferries	125 00	21 00		
Weights and Measures Inspection	561 93	239 85	119 00	12 83
Gas Inspection	353 40	24 00		
Electric Light Inspection	272 25	33 30		
Law Stamps (Exchequer Court)	237 50			
Patent Medicines Fees	72 00	19 00	2 00	5 00
Adulteration of Food		10 00		
Fertilizers Fees	13 00	4 00	4 00	
Commercial Feeding Stuffs	4 00			
Methylated Spirits	5,408 31	3,206 24	52 56	73 80
Totals	429,156 46	754,375 59	15,215 32	7,467 79
May:—				
Excise	480,379 75	965,664 62	16,475 54	9,276 01
" Seizures		125 00		13 60
Ferries	10 00	255 00		
Weights and Measures Inspection	3,031 21	2,439 35	282 88	323 12
Gas Inspection	2,321 60	1,462 20	44 60	29 20
Electric Light Inspection	2,769 05	810 75	69 00	205 50
Law Stamps (Supreme Court)	170 60			
" (Exchequer Court)	182 40			
" (Territorial Court, Yukon)				
Patent Medicines Fees	45 00	12 00	1 00	
Adulteration of Food	5 00	9 00		
Fertilizers Fees	12 00		4 00	
Commercial Feed Stuffs				
Methylated Spirits	7,662 37	1,580 10	53 02	76 37
Testing Milk Glasses Revenue	80 40			
Casual Revenue	12 00			
Totals	496,681 38	972,358 02	16,930,04	9,923 80
June:—				
Excise	478,862 92	989,981 52	18,907 04	9,691 26
" Seizures		85 55	100 00	
Weights and Measures Inspection	4,369 38	2,337 65	299 85	299 00
Gas Inspection	3,266 40	1,518 70	43 60	15 00
Electric Light Inspection	1,538 75	909 35	73 95	62 25
" Export Licenses	275 00	25 00	25 00	
Electrical Standards of Laboratory	6 00			
Law Stamps (Supreme Court)	91 60			
" (Exchequer Court)	416 00			
" (Territorial Court, Yukon)				
Patent Medicines Fees	25 00	8 00	2 00	
Fertilizers Fees	4 00	9 00		
Methylated Spirits	6,231 77	2,552 86	27 15	30 21
Testing Milk Glasses Revenue	190 90			
Totals	495,277 72	997,427 63	19,478 59	10,097 72

acco nt of Inland Revenues, during the Year ended March 31, 1913.

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
996 43	97,477 54	42,514 80	16,118 61	58,027 91	.. ..	1,410,436 48
. .....	.....	.....	... .	.....	.....	40 00
.....	....	.....	.....	... .	.....	146 00
....	.. . .	285 95	....	100 00	....	1,319 56
....	..... .	....	. ...	... .	.....	377 40
....	....	.....	.....	. .. .	....	305 55
....	....	.....	....	....	.. ..	237 50
1 00	2 00	5 00	. .....	5 00	....	111 00
....	5 00	.....	.....	....	.....	15 00
.....	....	4 00	.....	11 00	.. ..	36 00
....	.....	....	.....	.....	.....	4 00
....	205 24	....	... .	113 93	.....	9,060 08
997 43	97,689 78	42,809 75	16,118 61	58,257 84	....	1,422,088 57
1,013 44	94,313 20	47,441 27	20,237 45	84,483 74	695 56	1,719,980 58
.....	.....	. .. .	.....	.....	....	138 60
.. ..	.....	....	.....	... .	....	265 00
16 70	886 90	360 85	4 00	357 45	....	7,702 46
.. ..	125 00	63 60	.....	279 80	.....	4,326 00
. ...	1,080 60	780 00	108 60	682 20	.....	6,505 70
.....	... .	....	....	.....	.....	170 60
.....	.....	....	.....	... .	.....	182 40
....	.....	. .....	.....	.....	67 70	67 70
1 00	5 00	2 00	1 00	4 00	....	71 00
....	.....	.....	....	... .	.....	14 00
.....	..... .	....	....	.....	.....	16 00
... .	.....	....	....	9 00	.....	9 00
....	714 85	....	....	238 43	.....	10,325 14
.....	.. ..	....	....	.....	....	80 40
....	.....	.. . .	.....	.....	.....	12 00
1,031 14	97,125 55	48,647 72	20,351 05	86,054 62	763 26	1,749,866 58
988 72	97,933 16	48,795 23	24,239 00	67,327 94	1,015 34	1,737,742 43
....	.....	.....	....	.....	.....	185 55
55 10	872 05	370 00	.....	322 25	. .....	8,925 28
.....	206 80	39 80	.....	328 60	.....	5,418 90
10 80	714 00	365 85	172 50	1,244 25	.....	5,091 70
....	....	.....	....	100 00	.....	425 00
.....	... .	.....	....	....	.....	6 00
.....	.....	.. ..	.....	.....	.....	91 60
.....	... .	.....	.....	.....	.....	416 00
....	....	.....	....	.....	107 00	107 00
.....	1 00	.....	.....	1 00	... .	37 00
....	.....	.....	.....	1 00	... .	14 00
... .	279 08	....	.....	111 92	....	9,232 99
.....	....	.....	....	.. ..	....	190 90
1,054 62	100,006 39	49,570 88	24,411 50	69,436 96	1,122 34	1,767,884 35

No. 13.—Amounts deposited monthly to the credit of the Receiver General, on

—	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	$ cts.	$ cts.	$ cts.	$ cts.
July :—				
Excise	454,805 79	904,911 48	17,006 85	9,371 94
" Seizures		228 50		
Ferries	50 00			
Weights and Measures Inspection	4,524 96	3,166 60	558 90	538 06
" " Seizures	20 00			
Gas Inspection	3,088 90	1,297 50	79 30	52 80
Electric Light Inspection	2,050 50	1,217 00	69 60	25 50
Law Stamps (Supreme Court)	111 35			
" (Exchequer Court)	599 00			
" (Territorial Court, Yukon)				
Patent Medicines Fees	58 00	16 00	3 00	1 00
Fertilizers Fees	53 00	7 00		1 00
Methylated Spirits	6,392 28	1,833 54		69 57
Testing Milk Glasses Revenue	281 85			
Totals	472,035 63	912,677 62	17,717 65	10,059 87
August :—				
Excise	514,569 19	1,057,187 55	18,704 32	9,858 31
" Seizures		60 00		
Weights and Measures Inspection	2,423 29	4,305 10	474 15	241 65
Gas Inspection	3,017 40	1,387 80	126 80	13 80
Electric Light Inspection	1,728 60	592 10	78 60	175 05
Law Stamps (Exchequer Court)	166 50			
" (Territorial Court, Yukon)				
Patent Medicines Fees	27 00	5 00		2 00
Adulteration of Food	12 00			
Fertilizers Fees	81 00	6 00		
Commercial Feeding Stuffs	12 00			
Methylated Spirits	6,004 32	2,023 55	51 71	
Totals	528,041 30	1,065,567 10	19,435 58	10,290 81
September :—				
Excise	526,706 07	956,839 63	20,626 05	10,682 82
" Seizures		84 96	135 00	
Weights and Measures Inspection	3,316 44	3,096 50	808 09	724 80
Gas Inspection	2,537 90	1,399 60	114 00	30 40
Electric Light Inspection	1,808 25	632 40	119 85	88 20
Law Stamps (Supreme Court)	156 00			
" (Exchequer Court)	146 00			
" (Territorial Court, Yukon)				
Patent Medicines Fees	26 00	13 00		2 00
Adulteration of Food	24 00	5 00		
Fertilizers Fees	6 00	2 00		
Methylated Spirits	5,642 98	2,233 94	25 27	
Casual Revenue	42 00			
Totals	540,411 64	964,307 03	21,828 26	11,528 22

account of Inland Revenues, during the Year ended March 31, 1913—*Continued.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
949 63	101,790 95	58,874 26	24,889,09	91,516 02	205 95	1,664,321 96
						228 50
						50 00
74 87	1,274 25	444 90		298 35		10,880 89
						20 00
9 60	355 60	108 80		328 00		5,320 50
6 00	1,410 75	316 00	79 80	914 40		6,089 55
						111 35
						599 00
					125 75	125 75
	3 00	1 00	3 00	5 00		90 00
						64 00
	209 93			111 20		8,706 52
						281 85
1,040 10	105,134 48	59,741 96	24,971 89	93,172 97	331 70	1,696,886 87
932 70	106,815 21	58,946 26	27,342 71	82,516 74	1,056 96	1,877,929 95
	100 00					160 00
97 90	1,131 30	269 70		331 00		9,274 09
	244 00	102 20		309 20		5,201 20
3 00	939 45	414 45	153 60	791 55		4,876 40
						166 50
					278 20	278 20
	1 00	1 00		1 00		37 00
	25 00	5 00				42 00
						87 00
	7 00					19 00
	341 62			110 29		8,531 49
1,033 60	109,604 58	59,738 61	27,496 31	84,059 78	1,335 16	1,906,602 83
1,015 43	113,243 62	55,856 32	26,568 43	86,834 16		1,798,372 53
						219 96
90 05	500 15	374 55		353 15		9,263 73
	246 00	608 60		347 60		5,284 10
4 80	1,117 20	370 80	189 00	1,009 50		5,340 00
						156 00
						146 00
					266 75	266 75
	3 00			4 00		48 00
						29 00
						8 00
	352 21			157 51		8,411 91
						42 00
1,110 28	115,462 18	57,210 27	26,757 43	88,705 92	266 75	1,827,587 98

No. 13.—Amounts deposited monthly to the credit of the Receiver General, on

—	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	$ cts.	$ cts.	$ cts.	$ cts.
October:—				
Excise	531,294 84	1,061,038 12	18,644 44	8,258 99
" Seizures		250 00		
Weights and Measures Inspection	3,948 52	3,013 85	356 09	420 67
Gas Inspection	2,597 90	1,240 80	143 00	31 40
Electric Light Inspection	2,353 70	1,029 85	60 00	200 40
" " Export Licenses		50 00		
Electrical Standard of Laboratory	1 75			
Law Stamps (Supreme Court)	217 40			
" " (Exchequer Court)	140 00			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	23 00	10 00		2 00
Adulteration of Food	5 00	10 00		15 00
Fertilizers Fees		6 00		
Commercial Feeding Stuffs	11 00			
Methylated Spirits	8,246 19	3,058 32	52 95	
Totals	548,839 30	1,069,706 94	19,256 48	8,928 46
November:—				
Excise	578,478 73	1,052,546 59	20,702 63	11,271 42
" Seizures		25 00		
Ferries	1 00			
Weights and Measures Inspection	3,722 20	2,771 70	233 00	436 92
" " Seizures	25 00			
Gas Inspection	2,741 40	1,432 80	192 00	25 80
Electric Light Inspection	2,573 25	966 00	102 60	142 50
Law Stamps (Supreme Court)	92 60			
" " (Exchequer Court)	390 00			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	13 00	10 00		
Adulteration of Food	12 00	30 00		
Fertilizers Fees	43 00	5 00	7 00	5 00
Commercial Feeding Stuffs	50 00	5 00		
Methylated Spirits	7,532 62	1,435 29	26 44	
Testing Milk Glasses Revenue	387 60			
Casual Revenue	200 00			
Totals	596,262 40	1,059,227 38	21,263 67	11,881 64
December:—				
Excise	581,026 76	1,106,724 18	19,474 58	10,045 89
" Seizures				
Ferries	30 00			
Weights and Measures Inspection	2,704 60	1,500 55	161 49	110 58
Gas Inspection	2,772 90	1,427 20	36 00	10 00
Electric Light Inspection	2,836 35	1,116 30	111 45	105 90
Electrical Standard of Laboratory	5 00			
Law Stamps (Supreme Court)	204 90			
" " (Exchequer Court)	193 00			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	16 00	4 00	1 00	
Adulteration of Food				
Fertilizers Fees	55 00	20 00		11 00
Commercial Feeding Stuffs	63 00	24 00		
Methylated Spirits	5,457 41	2,676 38	76 74	70 78
Totals	595,364 92	1,113,492 61	19,861 26	10,354 15

account of Inland Revenues, during the year ended March 31, 1913—*Continued.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
966 85	119,065 64	59,554 00	29,040 92	89,858 81	555 92	1,918,278 53
						250 00
51 68	1,037 80	117 65		266 35		9,212 61
10 20	317 80	534 70		348 20		5,224 60
17 40	960 70	536 55	171 90	974 15		6,304 65
						50 00
						1 75
						217 40
						140 00
					150 25	150 25
	1 00		1 00	2 00		39 00
	5 00					35 00
						6 00
						11 00
	225 49			107 46		11,688 41
1,046 13	121,611 43	60,742 90	29,213 82	91,556 97	706 17	1,351,608 60
1,164 89	147,556 09	61,033 44	36,473 56	83,374 43	86 62	1,992,688 40
						25 00
						1 00
87 13	1,618 95	487 25	632 55	566 80		10,556 50
						25 00
	311 20	429 90		247 40		5,380 50
20 40	1,252 65	813 00	535 50	1,231 30		7,637 20
						92 60
						330 00
					318 75	318 75
				2 00		25 00
						42 00
				5 00		65 00
	10 00			10 00		75 00
	256 18			105 90		9,356 43
						387 60
						200 00
1,272 42	151,005 07	62,763 59	37,641 61	85,542 83	405 37	2,027,265 98
1,138 48	152,481 92	80,624 42	35,956 31	98,327 03	607 78	2,086,410 35
	51 25			304 00		355 25
						30 00
26 90	1,348 54	359 50	857 55	379 90		7,449 61
	236 00	409 10		283 80		5,175 00
16 35	1,489 05	844 05	292 65	1,379 90		8,192 00
						5 00
						204 90
						193 00
					447 00	447 00
	1 00			1 00		23 00
	5 00					5 00
	5 00	16 00		22 00		129 00
		5 00		5 00		97 00
	563 35			111 35		8,956 01
1,181 73	156,184 11	82,258 07	37,106 51	100,813 98	1,054 78	2,117,672 12

No. 13.—Amounts deposited monthly to the credit of the Receiver General, on

—	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	$ cts.	$ cts.	$ cts.	$ cts.
January:—				
Excise	487,516 30	813,040 86	18,203 03	7,681 52
" Seizures		100 00		
Ferries	1 00			
Weights and Measures Inspection	4,521 87	1,134 60	210 81	275 74
Gas Inspection	2,439 10	1,337 30	80 40	55 20
Electric Light Inspection	2,525 10	908 30	102 60	88 20
Law Stamps (Supreme Court)	76 40			
" " (Exchequer Court)	481 30			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	50 00	21 00	1 00	5 00
Adulteration of Food	10 00			
Fertilizers Fees	192 00	2 00	5 00	102 00
Commercial Feeding Stuffs	30 00	5 00		
Methylated Spirits	6,762 79	2,250 50	51 20	
Totals	504,605 86	818,799 56	18,654 04	8,207 56
February:—				
Excise	499,960 54	1,025,452 44	13,700 38	5,738 97
" Seizures		60 00		
Ferries	50 60			
Weights and Measures Inspection	3,848 59	1,711 20	133 82	153 30
Gas Inspection	2,363 30	1,597 00	34 20	5 20
Electric Light Inspection	2,292 30	1,022 60	102 60	180 90
Law Stamps (Supreme Court)	339 70			
" " (Exchequer Court)	838 00			
Patent Medicines Fees	229 00	38 00	5 00	7 00
Adulteration of Food	10 00	5 00		
Fertilizers Fees	33 00	1 00		41 00
Commercial Feeding Stuffs	71 00	5 00		
Methylated Spirits	6,550 17	2,975 36	29 67	
Totals	516,585 69	1,032,867 60	14,005 67	6,126 37
March:—				
Excise	577,206 84	981,641 26	17,902 94	9,199 19
" Seizures			200 00	
Ferries	231 00		10 00	
Weights and Measures Inspection	5,174 00	3,411 75	202 15	85 84
Gas Inspection	4,673 00	3,925 60	160 80	76 20
Electric Light Inspection	5,082 00	2,237 90	337 50	405 30
Law Stamps (Supreme Court)	267 35			
" " (Exchequer Court)	404 30			
" " (Territorial Court, Yukon)				
Patent Medicines Fees	542 00	104 00	15 00	26 00
Fertilizers Fees	57 00	9 00		
Commercial Feeding Stuffs	60 00	7 00		
Adulteration of Food	75 00	5 00		15 00
Electrical Standard of Laboratory	22 00			
Testing Milk Glasses Revenue	470 35			
Methylated Spirits	9,576 92	3,874 15	78 80	76 29
Totals	603,841 76	995,215 66	18,907 19	9,883 82

account of Inland Revenues, during the year ended March 31, 1913—*Concluded.*

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
873 00	115,209 78	52,552 06	25,025 30	75,264,34	.....	1,595,366 19
.....	.....	.....	.....	.....	.....	100 00
.....	.....	.....	.....	.....	.....	1 00
4 25	694 65	5 00	466 40	207 80	.....	7,521 12
12 00	252 80	296 10	.....	241 40	.....	4,714 30
11 40	1,161 35	539 25	253 35	893 50	.....	6,488 05
.....	.....	.....	.....	.....	.....	76 40
.....	.....	.....	.....	.....	.....	481 30
.....	.....	.....	.....	.....	96 00	96 00
.....	2 00	1 00	.....	1 00	.....	81 00
.....	.....	.....	.....	.....	.....	10 00
.....	2 00	2 00	.....	.....	.....	305 00
.....	5 00	.....	.....	5 00	.....	45 00
.....	485 57	.....	.....	.....	.....	9,550 06
900 65	117,813 15	53,395 41	25,745 05	76,613 04	96 00	1,624,830 42
1,021 46	94,095 53	47,733 48	21,164 62	70,999 93	.....	1,779,867 35
.....	.....	.....	.....	.....	.....	60 00
.....	.....	.....	.....	.....	.....	50 00
6 20	567 00	324 17	596 95	321 40	.....	7,662 63
4 20	213 40	885 90	.....	223 80	.....	5,327 00
15 00	874 60	737 35	223 80	791 25	.....	6,240 40
.....	.....	.....	.....	.....	.....	339 70
.....	.....	.....	.....	.....	.....	838 00
2 00	6 00	2 00	2 00	13 00	.....	304 00
.....	.....	.....	.....	.....	.....	15 00
.....	.....	.....	13 00	.....	.....	88 60
.....	5 00	7 00	22 00	.....	.....	110 00
.....	34 10	.....	.....	112 58	.....	9,701 88
1,048 86	95,795 63	49,689 90	22,022 37	72,461 96	.....	1,810,603 96
1,277 54	120,015 48	66,060 12	24,454 17	107,115 04	134 11	1,905,006 69
.....	.....	100 00	.....	.....	.....	300 00
.....	.....	.....	.....	.....	.....	241 00
31 90	973 80	300 70	131 65	544 75	26 50	10,883 04
14 20	300 50	1,189 60	.....	658 60	.....	10,998 50
10 20	1,250 15	924 60	94 20	1,125 75	.....	11,767 60
.....	.....	.....	.....	.....	.....	247 35
.....	.....	.....	.....	.....	.....	404 30
.....	.....	.....	.....	.....	121 75	121 75
3 00	18 00	6 00	3 00	18 00	.....	735 00
.....	.....	.....	.....	.....	.....	66 00
.....	.....	9 00	.....	9 00	.....	85 00
.....	5 00	10 00	10 00	.....	.....	120 00
.....	.....	.....	.....	.....	.....	22 00
.....	.....	.....	.....	.....	.....	470 35
.....	562 90	.....	.....	387 79	.....	14,556 85
1,336 84	123,125 83	68,600 02	24,693 02	110,158 93	282 36	1,956,045 43

RECAPITULATION of Statement No. 13 showing the

—	Ontario.	Quebec.	New Brunswick.	Nova Scotia.
	$ cts.	$ cts.	$ cts.	$ cts.
Excise	6,132,916 80	11,665,806 45	215,385 56	108,452 48
Excise Seizures	.....	1,059 01	435 00	13 60
Ferries	498 00	276 00	10 00	.....
Weights and Measures Inspection	42,146 99	29,128 70	3,840 23	3,622 51
" " Seizures	45 00	.....	.....	.....
Gas Inspection	32,173 20	18,050 50	1,054 70	345 00
Electric Light Inspection	27,830 10	11,475 85	1,227 75	1,679 70
Electric Light Export Licenses	275 00	75 00	25 00	.....
Electrical Standard of Laboratory	34 75	.....	.....	.....
Law Stamps (Supreme Court)	1,727 90	.....	.....	.....
" (Exchequer Court)	4,194 00	.....	.....	.....
" (Yukon Territorial Court)	.....	.....	.....	.....
Patent Medicines Fees	1,126 00	260 00	30 00	50 00
Adulteration of Food	153 00	74 00	.....	30 00
Fertilizers Fees	549 00	71 00	20 00	160 00
Commercial Feeding Stuffs	301 00	46 00	.....	.....
Methylated Spirits	81,468 13	29,700 23	525 51	397 02
Testing Milk Glasses Revenue	1,411 10	.....	.....	.....
Casual Revenue	254 00	.....	.....	.....
Totals	6,327,103 97	11,756,022 74	222,553 75	114,750 31

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

total revenues for the year ended March 31, 1913.

Prince Edward Island.	Manitoba.	Alberta.	Saskatchewan.	British Columbia.	Yukon.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
12,338 57	1,360,001 42	679,985 66	311,510 17	995,646 09	4,358 24	21,486,401 44
	151 25	100 00		304 60		2,062 86
						784 00
542 68	10,905 39	3,700 22	2,689 10	4,049 20	26 50	100,651 52
						45 00
				3,596 40		62,747 40
50 20	2,809 10	4,668 30		11,337 75		74,833 80
115 35	12,250 50	6,641 90	2,274 90	100 00		475 00
						34 75
						1,727 90
						4,194 00
					1,979 15	1,979 15
				57 00		1,601 00
7 00	43 00	18 00	10 00			327 00
	45 00	15 00	10 00			881 00
	7 00	22 00	13 00	39 00		455 00
	27 00	21 00	22 00	38 00		118,077 77
	4,318 52			1,668 36		1,411 10
						254 00
13,053 80	1,390,558 18	695,172 08	316,529 17	1,016,835 80	6,363 89	21,858,943 69

W. HIMSWORTH,
Deputy Minister.

4 GEORGE V., A. 1914

EXCISE

No. 14.—Comparative Statement

	April.	May.	June.	July.	August.
	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Spirits 1911-12	583,553 00	626,728 56	621,869 53	583,228 55	716,315 00
Spirits 1912-13	702,122 44	726,757 71	678,405 20	667,790 76	784,287 91
Increase	118,569 44	100,029 15	56,535 67	84,562 31	67,972 91
Decrease					
Malt Liquor 1911-12	9,837 90	8,538 90	5,937 10	7,708 24	7,306 45
Malt Liquor 1912-13	17,128 48	8,885 38	10,618 32	17,200 72	13,420 80
Increase	7,290 58	346 48	4,681 22	9,492 48	6,114 35
Decrease					
Malt 1911-12	138,733 90	168,271 19	171,745 94	165,009 12	167,747 71
Malt 1912-13	166,145 25	176,275 29	171,212 54	200,038 75	176,705 04
Increase	27,411 35	8,004 10		35,029 63	8,957 33
Decrease			533 40		
Tobacco 1911-12	605,284 78	634,908 65	604,423 78	615,672 98	723,615 11
Tobacco 1912-13	743,242 72	779,010 39	740,998 09	794,743 20	827,047 16
Increase	137,957 94	144,101 74	136,574 31	179,070 22	103,432 05
Decrease					
Cigars 1911-12	44,486 57	41,616 08	43,804 98	41,679 29	45,470 87
Cigars 1912-13	54,684 10	48,700 16	48,572 14	51,920 30	51,053 95
Increase	10,197 53	7,084 08	4,767 16	10,241 01	5,583 08
Decrease					
Manufactures in Bond 1911-12	8,240 32	8,378 61	7,166 82	6,687 27	10,659 21
Manufactures in Bond 1912-13	9,074 41	9,976 71	6,990 26	7,493 58	11,388 29
Increase	834 09	1,598 10		806 31	729 08
Decrease			176 56		
Acetic Acid, 1911-12	1,075 43	856 10	786 14	1,235 97	1,229 35
Acetic Acid, 1912-13	1,098 92	1,114 93	1,421 08	1,206 62	1,377 75
Increase	23 49	258 83	634 94		148 40
Decrease				29 35	
Seizures 1911-12	36 95	509 75	220 00	10 00	152 50
Seizures 1912-13	65 00	113 60	289 05	285 00	5 46
Increase	28 05		69 05	275 00	
Decrease		396 15			147 04
Other Receipts 1911-12	19,469 20	5,954 58	7,607 10	4,067 85	4,636 09
Other Receipts 1912-13	19,141 95	4,595 25	5,989 62	6,689 79	6,988 55
Increase				2,621 94	2,352 46
Decrease	327 25	1,359 33	1,617 48		
Total Revenue 1911-12	1,410,718 05	1,495,762 42	1,463,561 39	1,425,299 27	1,677,132 29
Total Revenue 1912-13	1,712,703 27	1,755,429 42	1,664,496 30	1,747,368 72	1,872,274 91
Total Increase	301,985 22	259,667 00	200,934 91	322,069 45	195,142 62
Decrease					

Inland Revenue Department,
Ottawa, June 1, 1913.

SESSIONAL PAPER No. 12

REVENUES.

of Receipts for 1911-12 and 1912-13.

September.	October.	November.	December.	January.	February.	March.	Totals.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
777,877 90	820,686 73	906,453 56	1,001,686 54	695,580 57	678,737 26	651,948 62	8,667,665 82
794,751 95	82,910 90	948,578 92	1,127,802 80	731,858 54	694,108 76	734,766 23	9,474,142 12
16,874 05	62,224 17	42,125 36	126,116 26	36,277 97	15,371 50	79,817 61	806,476 30
....	....	....	.....	.....	....	.....	....
8,219 50	5,272 43	7,004 93	7,195 93	4,986 98	7,012 60	7,735 18	86,756 14
13,636 60	10,380 80	14,548 40	10,999 30	9,549 40	10,764 40	12,313 70	149,137 30
5,417 10	5,108 37	7,543 47	3,794 37	4,562 42	3,751 80	4,578 52	62,681 16
....	... .	...	.....	.....	.....	.....	.....
132,674 53	119,831 11	128,578 18	118,332 26	130,759 28	722,465 05	152,398 35	1,716,546 62
133,435 43	127,682 81	136,248 39	145,848 21	142,433 07	143,333 88	145,165 88	1,864,524 57
760 90	7,851 73	7,670 21	27,515 95	11,673 79	20,868 83	7,232 17	147,977 95
.....	.....	.....	.....	.....	.....	.....	.....
684,128 21	747,433 71	773,181 11	691,134 29	679,746 37	764,978 57	695,568 44	8,130,776 00
751,122 40	867,434 82	830,250 45	642,315 50	791,597 21	809,585 08	611,833 91	9,192,180 96
69,694 19	120,001 11	56,769 34	41,181 21	111,850 84	44,606 51	83,831 50	1,061,404 96
....	....	....	.....	.....	.....	.....	....
45,293 49	44,522 57	47,292 17	44,277 15	36,506 18	39,618 26	43,078 22	517,645 83
47,532 92	56,169 59	55,983 60	52,155 85	41,880 29	42,246 31	48,369 49	602,268 70
2,239 43	11,647 02	8,691 43	7,878 70	8,374 11	2,628 05	5,291 27	84,622 87
.....	....	...	.....	.....	.....	.....	.....
10,601 73	9,641 63	5,434 55	4,712 43	4,095 81	3,064 96	6,037 07	84,720 11
12,461 71	12,405 11	7,155 69	3,509 03	2,800 61	3,291 97	4,913 00	91,460 37
1,859 98	2,763 48	1,721 14	.....	.....	227 01	....	6,739 96
... .	....		1,203 40	1,295 20		1,124 07	.....
1,264 73	2,377 59	1,269 66	189 12	490 24	173 80	351 82	11,299 95
1,042 53	528 02	726 15	556 22	549 98	539 95	363 45	10,525 60
.....	.....	.....	367 10	59 74	366 15	11 63	.....
222 20	1,849 57	543 51	.....	.....	.....	.....	774 35
146 00	.....	41 45	273 30	400 00	41 19	485 60	2,319 74
214 50	250 00	25 00	355 25	100 00	50 00	300 00	2,062 86
68 50	250 00	.....	81 95	.....	15 81	....	....
.....	.....	16 15	.....	300 00	.....	185 60	256 88
7,861 25	5,642 04	9,338 74	5,406 60	6,776 61	6,866 71	7,032 34	90,659 11
8,921 47	8,392 31	9,532 03	7,882 90	12,173 67	6,226 30	6,845 22	103,379 09
1,060 22	2,750 30	193 29	2,476 30	5,397 06	.....	.....	12,719 98
....	... .	.....	.....	.....	640 41	187 12	.....
1,668,367 34	1,755,407 81	1,878,894 35	1,783,207 62	1,559,342 04	1,622,961 40	1,567,735 64	19,308,389 62
1,766,119 51	1,966,154 42	2,003,048 63	1,991,416 06	1,735,942 77	1,710,156 65	1,564,870 91	21,489,981 57
97,752 17	210,746 61	124,151 28	208,208 41	176,600 73	87,195 25	.....	2,181,591 95
....	....	.....	....	....	....	2,861 73	.....

W. HIMSWORTH,
Deputy Minister.

No. 15.—Refunds of Revenue during the fiscal year ended March 31, 1913

EXCISE.

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.	Totals.
		1912.			$ cts.	$ cts.
Spirits	Parke, Davis & Co	April 19	Windsor	Refunded under Revised Statutes, cap. 51, sec. 254	298 61	
	" "	May 8	"	" " 51 " 254	515 56	
	" "	" 20	"	" " 51 " 254	686 56	
	" "	" 27	"	" " 51 " 254	421 77	
	" "	June 6	"	" " 51 " 254	102 21	
	" "	" 10	"	" " 51 " 254	829 67	
	" "	" 17	"	" " 51 " 254	484 64	
	" "	" 25	"	" " 51 " 254	880 19	
	British Columbia Distillery Co., Ltd	" 25	Vancouver	" " 24 " 92	69 75	
	Parke, Davis & Co	July 3	Windsor	" " 51 " 254	80 69	
	" "	" 9	"	" " 51 " 254	485 67	
	" "	" 15	"	" " 51 " 254	684 81	
	" "	" 23	"	" " 51 " 254	157 78	
	" "	Aug. 6	"	" " 51 " 254	1,045 44	
	" "	" 13	"	" " 51 " 254	253 58	
	" "	" 26	"	" " 51 " 254	151 73	
	" "	Sept. 3	"	" " 51 " 254	31 95	
	" "	" 10	"	" " 51 " 254	202 55	
	" "	" 24	"	" " 51 " 254	323 60	
	" "	Oct. 1	"	" " 51 " 254	293 99	
	" "	" 14	"	" " 51 " 254	135 73	
	" "	" 30	"	" " 51 " 254	232 52	
	General Distilling Co., Ltd	Nov. 5	Toronto	" " 24 " 92	6,136 19	
	Parke, Davis & Co	" 5	Windsor	" " 51 " 254	565 92	
	" "	" 12	"	" " 51 " 254	135 42	
	Hamilton, J. S. & Co	" 28	Brantford	" " 51 " 254	176 64	
	Parke, Davis & Co	Dec. 2	Windsor	" " 51 " 254	951 72	
	" "	" 19	"	" " 51 " 254	454 08	
	" "	" 30	"	" " 51 " 254	507 47	
		1913.				
	" "	Jan. 13	"	" 51 " 254	494 73	
	" "	" 21	"	" " 51 " 254	475 02	
	" "	" 27	"	" " 51 " 254	142 36	
	Hiram Walker & Sons, Ltd	" 28	"	" 24 " 92	58 50	

	Parke, Davis & Co.	Feb.	3.	"	"	"	51	" 254	153 40		
	" "	"	10.	"	"	"	51	" 254	108 20		
	" "	"	17.	"	"	"	51	" 254	116 28		
	" "	"	24.	"	"	"	51	" 254	58 01		
	" "	Mar.	3.	"	"	"	51	" 254	38 24		
	" "	"	10.	"	"	"	51	" 254	753 65		
	" "	"	17.	"	"	"	51	" 254	447 86		
	" "	"	25.	"	"	"	51	" 254	307 13		
	" "	"	31.	"	"	"	51	" 254	49 42		
	Hamilton, J. S. & Co.	April	1.	Brantford	"	"	51	" 254	139 57		
	Parke, Davis & Co.	"	8.	Windsor	"	"	51	" 254	585 78		
	" "	"	14.	"	"	"	51	" 254	254 10		
									21,478 69		
								Less Refunded by Parke, Davis & Co.	18 34		
											21,460 35
Malt	Carling, T. H.	May	2.	London	Refunded under Revised Statutes, cap. 24 sec. 92				63 48		
	Grants Spring Brewery Co., Ltd.	"	6.	Hamilton	"	"	24	" 92	958 21		
	Canada Malting Co.	"	6.	"	"	"	24	" 92	1,555 60		
	Hamilton Brewg. Ass., Ltd., The	"	6.	"	"	"	24	" 92	990 00		
	Spénard, J. M.	"	6.	Three Rivers	"	"	24	" 92	30 00		
	Wiser, J. P. & Sons, Ltd.	"	8.	Prescott	"	"	24	" 92	147 98		
	McCarthy, T. C.	"	8.	"	"	"	24	" 92	367 87		
	Bowie & Co's. Brewery, Ltd.	"	8.	"	"	"	24	" 92	159 42		
	St. Lawrence Brewery, Ltd.	"	8.	"	"	"	24	" 92	1,612 50		
	Hoeschen Wentzler Brewg. Co., Ltd., The	"	10.	Moose Jaw	"	"	51	" 201	168 75		
	Lethbridge B. & M. Co., Ltd., The	"	10.	Calgary	"	"	51	" 201	93 60		
	Victoria Phœnix Brewing Co., Ltd	"	10.	Victoria	"	"	51	" 201	252 00		
	Vancouver Breweries, Ltd., The	"	10.	Vancouver	"	"	51	" 201	960 00		
	Canadian B. & M. Co., Ltd.	"	14.	"	"	"	51	" 201	883 50		
	National Breweries, Ltd., The	"	20.	Quebec	"	"	51	" 201	315 65		
	Rau Mary	"	20.	Guelph	"	"	24	" 92	47 25		
	National Breweries, Ltd., The	"	21.	Montreal	"	"	51	" 201	54 00		
	Edmonton B. & M. Co., Ltd., The	"	21.	Calgary	"	"	51	" 201	504 00		
	Brasserie Champlain, Ltd., La	"	21.	Quebec	"	"	24	" 92	240 00		
	Robitaille Eureka Distillery, Ltd., The	"	21.	"	"	"	24	" 92	119 43		
	Imperial Brewing Co.	"	22.	Vancouver	"	"	24	" 92	60 00		
	Ferme-Fort Steele Brewg. Co. Ltd	"	22.	"	"	"	24	" 92	341 93		
	Hartinger, F.	"	22.	"	"	"	24	" 92	15 00		
	Elk Valley Brewing Co., Ltd.	"	22.	"	"	"	24	" 92	134 17		

EXCISE—*Continued.*

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.	Totals.
		1912.			$ cts.	$ cts.
Malt—(*continued*)...	Mueller & Hesse	May 22..	Vancouver	Refunded under Revised Statutes, cap. 24 sec. 92	22 50	
	Nelson Brewing Co., Ltd., The	" 22..	"	" " 24 " 92	204 75	
	Nelson, Nels	" 22..	"	" " 24 " 92	517 50	
	Phœnix Brewing Co., Ltd.	" 22..	"	" " 24 " 92	150 00	
	Nelson Brewing Co	" 22..	"	" " 24 " 92	24 40	
	Enterprise Brewing Co., The	" 22..	"	" " 24 " 92	81 92	
	Henderson, Hugh	" 22..	"	" " 24 " 92	74 25	
	Mueller, August	" 22..	"	" " 24 " 92	120 00	
	Vancouver Breweries Ltd., The	" 22..	"	" " 24 " 92	2,070 00	
	Canadian B. & M. Co., Ltd.	" 22..	"	" " 24 " 92	1,278 44	
	Walkerville Brewing Co., Ltd.	June 10..	Windsor	" " 24 " 92	273 08	
	Lethbridge B. & M. Co., Ltd., The	" 12..	Calgary	" " 51 " 201	139 50	
	Nelson, Nels	" 14..	Vancouver	" " 51 " 201	51 00	
	National Breweries, Ltd., The	" 14..	Montreal	" " 51 " 201	108 00	
	Vancouver Breweries, Ltd., The	" 14..	Vancouver	" " 51 " 201	600 00	
	Canadian B. & M. Co, Ltd.	" 14..	"	" " 51 " 201	342 00	
	Edmonton B. & M. Co., Ltd., The	" 21..	Calgary	" " 51 " 201	432 00	
	Hoeschen Wentzler Brewg. Co., Ltd., The	" 28..	Moose Jaw	" " 51 " 201	191 40	
	Port Dover Evaporating Co.	July 3..	Brantford	" " 51 " 254	64 80	
	Lethbridge B. & M. Co., Ltd.	" 12..	Calgary	" " 51 " 201	279 00	
	National Breweries Ltd, The	" 15..	Montreal	" " 51 " 201	162 00	
	Hoeschen Wentzler Brewing Co	" 15..	Moose Jaw	" " 51 " 201	111 60	
	Canadian B. & M. Co., Ltd.	" 15..	Vancouver	" " 51 " 201	774 75	
	Vancouver Breweries, Ltd., The	" 15..	"	" " 51 " 201	840 00	
	Dyson Vinegar Co., The	" 24..	Winnipeg	" " 51 " 201	503 29	
	National Breweries, Ltd., The	Aug. 13..	Montreal	" " 51 " 201	270 00	
	Hoschen Wentzler Brewing Co., Ltd	" 13..	Moose Jaw	" " 51 " 201	251 10	
	Lethbridge B. & M. Co., Ltd., The	" 13..	Calgary	" " 51 " 201	604 50	

Calgary Brewing & Malting Co., Ltd.	"	15.	Calgary	"	"	51	"	201.	216 00
Vancouver Breweries, Ltd., The	"	15.	Vancouver	"	"	51	"	201.	1,500 00
Canadian B. & M. Co., Ltd.	"	15.	"	"	"	51	"	201.	715 87
Victoria Phoenix Brewg. Co.	Sept.	6.	Victoria	"	"	51	"	201.	363 00
Lethbridge B. & M. Co., Ltd., The	"	11.	Calgary	"	"	51	"	201.	465 00
Calgary B. & M. Co., Ltd.	"	11.	"	"	"	51	"	201.	165 00
Canadian B. & M. Co., Ltd.	"	13.	Vancouver	"	"	51	"	201.	788 25
Westminster B. & M. Co.	"	13.	"	"	"	51	"	201.	24 00
Vancouver Breweries, Ltd., The	"	13.	"	"	"	51	"	201.	600 00
National Breweries, Ltd., The	"	14	Montreal	"	"	51	"	201.	216 00
Hoeschen Wentzler Brewing Co., Ltd.	"	14	Moose Jaw	"	"	51	"	201.	421 50
Edmonton B. & M. Co., Ltd. The	Oct.	9.	Calgary	"	"	51	"	201.	1,008 00
Lethbridge B. & M. Co., Ltd., The	"	9	"	"	"	51	"	201.	372 00
Calgary B. & M. Co., Ltd., The	"	9.	"	"	"	51	"	201.	127 50
Hoeschen & Wentzler B. Co., Ltd	"	11.	Moose Jaw	"	"	51	"	201.	144 90
Vancouver Breweries, Ltd.	"	11.	Vancouver	"	"	51	"	201.	960 00
Canadian B. & M. Co., Ltd.	"	11	"	"	"	51	"	201.	1,170 00
National Breweries, Ltd., The	"	15.	Montreal	"	"	51	"	201.	162 00
Dyson Vinegar Co., The	"	15.	Winnipeg	"	"	51	"	201.	1,206 00
Edmonton B. & M. Co., Ltd., The	Nov.	11.	Calgary	"	"	51	"	201.	288 00
Lethbridge B. & M. Co., Ltd., The	"	11.	"	"	"	51	"	201.	327 00
Calgary B. & M. Co., Ltd., The	"	11	"	"	"	51	"	201.	127 50
Hoeschen & Wentzler B. Co., Ltd	"	12.	Moose Jaw	"	"	51	"	201.	58 50
Vancouver Breweries, Ltd., The	"	12.	Vancouver	"	"	51	"	201.	510 00
Westminster B. & M. Co.	"	12.	"	"	"	51	"	201.	24 00
Le Roi Brewing Co., The	"	12.	"	"	"	51	"	201.	30 00
Canadian B. & M. Co., Ltd.	"	12	"	"	"	51	"	201.	805 50
National Breweries, Ltd., The	"	12.	Montreal	"	"	51	"	201.	108 00
" "	"	20.	Quebec	"	"	24	"	92.	260 68
" "	"	29.	"	"	"	24	"	92.	415 65
Hoeschen & Wentzler B. Co., Ltd	Dec.	12.	Moose Jaw	"	"	51	"	201.	204 75
Calgary B. & M. Co., Ltd., The	"	12.	Calgary	"	"	51	"	201.	132 00
Edmonton B. & M. Co., Ltd., The	"	12.	"	"	"	51	"	201.	108 00

EXCISE—*Continued.*

Articles.	To whom paid.	Date.	Divisions.	Under what Authority refunded.	Amount.	Totals.
		1912.			$ cts.	$ cts.
Malt—*Continued.*	National Breweries Ltd., The	Dec. 13.	Montreal	Refunded under Revised Statutes, cap. 51 sec. 201	162 00	
	Vancouver Breweries, Ltd., The	" 13.	Vancouver	" " 51 " 201	540 00	
	Canadian B. & M. Co., Ltd.	" 13.	"	" " 51 " 201	1,624 50	
	Lethbridge B. & M. Co., Ltd., The	" 16.	Calgary	" " 51 " 201	465 00	
		1913.				
	Hoeschen & Wentzler B. Co., Ltd	Jan. 13.	Moose Jaw	" " 51, " 201	380 25	
	Edmonton B. & M. Co., Ltd.	" 13.	"	" " 51 " 201	288 00	
	Lethbridge B. & M. Co., Ltd.	" 13.	Calgary	" " 51 " 201	540 00	
	Calgary B. & M. Co., Ltd., The	" 13.	"	" " 51 " 201	132 00	
	Mountain Spring Brewg. Co., Ltd	" 13.	"	" " 51 " 201	280 50	
	National Breweries, Ltd	" 15.	Montreal	" " 51 " 201	54 00	
	Vancouver Breweries, Ltd., The	" 16.	Vancouver	" " 51 " 201	300 00	
	Canadian B. & M. Co., Ltd.	" 16.	"	" " 51 " 201	427 50	
	Henderson, H	" 16.	"	" " 51 " 201	21 00	
	Nelson, Nels	" 16.	"	" " 51 " 201	24 00	
	Dyson Vinegar Co., The	" 16.	Winnipeg	" " 51 " 201	1,350 00	
	Wilson, Lytle, Badgerow Co., Ltd	" 17.	Toronto	" " 51 " 254	599 45	
	Victoria Phœnix Brg. Co., Ltd., The	" 21.	Victoria	" " 51 " 201	456 00	
	Hoeschen & Wentzler B. Co., Ltd	Feb. 12.	Moose Jaw	" " 51 " 201	174 67	
	Edmonton B. & M. Co., Ltd., The	" 12.	Calgary	" " 51 " 201	216 00	
	Lethbridge B. & M. Co., Ltd.	" 12.	"	" " 51 " 201	360 00	
	Calgary B. & M. Co., Ltd	" 12.	"	" " 51 " 201	103 13	
	Vancouver Breweries, Ltd., The	" 18.	Vancouver	" " 51 " 201	360 00	
	Canadian Brewg. & M. Co., Ltd	" 18.	"	" " 51 " 201	769 50	
	Henderson, H	" 18.	"	" " 51 " 201	30 00	

National Breweries, Ltd.	"	18	Montreal	"	"	51	"	201	108	00
Rau Mary	Mar.	10	Guelph	"	"	51	"	254	44	94
Edmonton B. & M. Co., Ltd., The	"	12	Calgary	"	"	51	"	201	72	00
Lethbridge B. & M. Co., Ltd.	"	12	"	"	"	51	"	201	270	00
Calgary B. & M. Co., Ltd	"	12	"	"	"	51	"	201	309	37
Mountain Spring Brewg. Co., Ltd	"	12	"	"	"	51	"	201	193	50
Vancouver Breweries, Ltd.	"	12	Vancouver	"	"	51	"	201	360	00
Canadian B. & M. Co., Ltd.	"	12	"	"	"	51	"	201	769	50
Hoeschen & Wentzler B. Co., Ltd	"	13	Moose Jaw	"	"	51	"	201	230	85
National Breweries, Ltd., The	"	14	Montreal	"	"	51	"	201	108	00
Spénard, J. M	April	1	Three Rivers	"	"	24	"	92	18	90
Edmonton B. & M. Co., Ltd., The	"	11	Calgary	"	"	51	"	201	360	00
Lethbridge B. & M. Co., Ltd.	"	11	"	"	"	51	"	201	540	00
Calgary B. & M. Co., Ltd	"	11	"	"	"	51	"	201	206	25
Mountain Spring Brewg. Co., Ltd	"	11	"	"	"	51	"	201	43	80
Corby H. Distillery Co., Ltd.	"	11	Belleville	"	"	24	"	92	429	00
Roy, J. A	"	11	"	"	"	24	"	92	107	29
Oland, J. C	"	11	Brantford	"	"	24	"	92	37	49
Bixel, A	"	11	"	"	"	24	"	92	437	10
Fisher, John	"	11	Kingston	"	"	24	"	92	174	83
Stevenson, R	"	11	"	"	"	24	"	92	145	84
Labatt, John	"	11	London	"	"	24	"	92	1,504	22
Carling, T. H	"	11	"	"	"	24	"	92	1,779	13
Hamilton, Jos	"	11	"	"	"	24	"	92	121	50
Begg, G. E	"	11	"	"	"	24	"	92	181	50
Capital Brewg. Co., Ltd., The	"	11	Ottawa	"	"	24	"	92	858	82
Blake & Dunne	"	11	"	"	"	24	"	92	109	08
Sudbury B. & M. Co., Ltd	"	11	Perth	"	"	24	"	92	1,372	50
New Ontario Brewg Co	"	11	"	"	"	24	"	92	225	00
Superior B. & M. Co., Ltd.	"	11	Port Arthur	"	"	24	"	92	316	50
Lakewood Brewery Co	"	11	"	"	"	24	"	92	115	35
Kakabeka Falls Brewery Co., Ltd., The	"	11	"	"	"	24	"	92	810	00
Wiser, J. P. & Sons, Ltd	"	11	Prescott	"	"	24	"	92	218	25
St. Lawrence Brewery Ltd.	"	11	"	"	"	24	"	92	1,605	00
McCarthy, T. C	"	11	"	"	"	24	"	92	314	76
Bowie & Co's. Brewery Ltd.	"	11	"	"	"	24	"	92	150	00
Devlin, F	"	11	Stratford	"	"	24	"	92	108	00
Canada Malting Co., Ltd., The	"	11	"	"	"	24	"	92	220	43
Watson, John	"	11	"	"	"	24	"	92	173	17
Hiram Walker & Sons, Ltd.	"	11	Windsor	"	"	24	"	92	1,765	56
Irion, A. L	"	11	"	"	"	24	"	92	555	00
Wakerville Brewing Co., The	"	11	"	"	"	24	"	92	221	25
St. Hyacinthe Distillery Co., Ltd., The	"	11	St. Hyacinthe	"		24	"	92	106	50

EXCISE—*Continued.*

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.	Totals.
		1913.			$ cts.	$ cts.
Malt—*Continued*....	Silver Spring Brewery, Ltd..	April 11..	Sherbrooke.....	Refunded under Revised Statutes, cap. 24, sec. 92....	677 17	
	Jones Simeon.....	" 11..	St. John	" " 24 " 92....	270 00	
	Ready, Jas. (Estate of).....	" 11..	"	" " 24 " 92....	720 00	
	Dyson Vinegar Co.	" 14..	Winnipeg.....	" " 51 " 201....	1,242 00	
	Wilson Lytle Badgerow Co., Ltd., The.....	" 15..	Toronto	" " 51 " 201...	198 14	
	National Breweries Ltd., The	" 16..	Montreal.....	" " 51 " 201....	54 00	
	Hoeschen & Wentzler Brewing Co., Ltd.....	" 16..	Moose Jaw.....	" " 51 " 201....	87 75	
	Vancouver Breweries Ltd. ..	" 16..	Vancouver..	" " 51 " 201....	517 50	
	Canadian M. & B. Co., Ltd.	" 16..	"	" " 51 " 201....	940 50	
	Victoria Phœnix Brewing Co., Ltd.	" 16..	Victoria.....	" " 51 " 201....	171 00	
	Hamilton Brewing Asso., Ltd., The	" 16..	Hamilton	" " 24 " 92....	990 00	
	Grauts Spring Brewery Co., Ltd	" 16..	"	" " 24 " 92....	798 54	
	Canada Malting Co.....	" 16..	Guelph.....	" " 24 " 92 ...	1,621 69	
	Eaton, Chris.....	" 16..	Owen Sound.. ...	" " 24 " 92....	102 33	
	Schwan W.	" 16..	"	" " 24 " 92....	34 20	
	Schwan, V.	" 16..	" . .	" " 24 " 92....	6 67	
	Huether, J. C....	" 16..	" ...	" " 24 " 92....	85 50	
	Heisz & Tiede	" 16..	"	" " 24 " 92....	124 21	
	Farquharson & Grainger	" 16..	"	" " 24 " 92....	59 70	
	Taylor & Bate	" 16..	St. Catherines....	" " 24 " 92....	696 06	
	White, T. F....	" 16..	"	" " 24 " 92....	529 20	
	Keith, D	" 16..	Halifax	" " 24 " 92....	1,358 88	
	Halifax Breweries Ltd	" 16..	"	" " 24 " 92....	584 77	
	Oland & Son.....	" 16..	"	" " 24 " 92....	253 09	
	Silver Spring Brewery Ltd..	" 16..	Victoria	" " 24 " 92....	832 50	
	Union Brewing Co., Ltd ...	" 16..	"	" " 24 " 92 ...	458 32	
	Victoria Phœnix Brewing Co.	" 16..	"	" " 24 " 92....	1,080 00	
	Pilsener Brewing Co.....	" 16..	"	" " 24 " 92 ...	120 00	
	Sleeman, H. O.....	" 21..	Guelph.....	" " 24 " 92....	240 23	
	Sleeman, G. A	" 21..	"	" " 24 " 92....	320 40	
	Holliday, Wm. R.....	" 21..	"	" " 24 " 92....	381 87	
	Berlin Lion Brewery, Ltd., The.....	" 21..	"	" " 24 " 92....	1,176 45	

Lutz, W. H	"	21	"	"	"	"	24	"	92	51	18
Rau Mary	"	21	"	"	"	"	24	"	92	150	36
Bernhardt, V. P	"	21	"	"	"	"	24	"	92	157	67
Seagram, J. E	"	21	"	"	"	"	24	"	92	105	00
Baner, A.	"	21	"	"	"	"	24	"	92	1,685	82
Moosejaw B. & M. Co.	"	21	Moose Jaw	"	"	"	24	"	92	436	50
Golden Lion Brewing Co., Ltd.	"	21	"	"	"	"	24	"	92	297	08
Regina B. & M. Co., Ltd., The	"	21	"	"	"	"	24	"	92	270	00
Hoeschen & Wentzler Brewery Co., Ltd.	"	21	"	"	"	"	24	"	92	982	50
Calcutt, H.	"	25	Peterborough	"	"	"	24	"	92	384	72
Simpson, W. H. (Estate of)	"	25	"	"	"	"	24	"	92	162	00
Barrie Malting & Extract Co., Ltd., The	"	25	Toronto	"	"	"	24	"	92	71	02
Kemp, D. C.	"	25	"	"	"	"	24	"	92	158	06
Wright, A. J.	"	25	"	"	"	"	24	"	92	14	17
Soo Falls Brewing Co., Ltd.	"	25	"	"	"	"	21	"	92	1,095	00
Hornman Brewing Co.	"	25	"	"	"	"	21	"	92	164	70
Cosgrave Brewing Co., Ltd.	"	25	"	"	"	"	24	"	92	1,956	68
Copland Brewing Co., Ltd.	"	25	"	"	"	"	21	"	92	2,307	00
Dominion Brewery Co., Ltd., The	"	25	"	"	"	"	24	"	92	1,527	81
Reinhardt, L.	"	25	"	"	"	"	24	"	92	1,524	40
Toronto B. & M. Co., Ltd.	"	25	"	"	"	"	24	"	92	1,306	02
Gold Lion Brewing Co., Ltd.	"	25	Montreal	"	"	"	21	"	92	345	00
Molson, H.	"	25	"	"	"	"	24	"	92	3,997	75
Canada Malting Co., Ltd., The	"	25	"	"	"	"	24	"	92	9,781	43
National Breweries, Ltd.	"	25	"	"	"	"	21	"	92	4,851	84
" " "	"	25	Quebec	"	"	"	24	"	92	621	11
Brasserie Champlain, Ltd., La	"	25	"	"	"	"	24	"	92	1,080	00
Brandon Brewing Co., Ltd., The	"	25	Winnipeg	"	"	"	24	"	92	311	63
Empire Brewing Co., Ltd., The	"	25	"	"	"	"	24	"	92	384	08
Rice Malting Co. of Canada	"	25	"	"	"	"	24	"	92	361	92
Drewry, E. L.	"	25	"	"	"	"	24	"	92	489	08
Canada Malting Co., Ltd., The	"	25	"	"	"	"	24	"	92	5,674	85
" "	"	28	Calgary	"	"	"	24	"	92	46	90
Mountain Spring Brewing Co.	"	28	"	"	"	"	24	"	92	67	50
Golden West Brewing Co., Ltd.	"	28	"	"	"	"	24	"	92	203	25
Calgary B. & M. Co., Ltd., The	"	28	"	"	"	"	24	"	92	3,218	56
Lethbridge B. & M. Co., Ltd., The	"	28	"	"	"	"	24	"	92	1,207	50
Gooderham & Worth, Ltd.	"	29	Toronto	"	"	"	24	"	92	1,184	08
Edmonton B. & M. Co., Ltd.	"	29	Calgary	"	"	"	24	"	92	701	25
Strathcona B. & M. Co., Ltd.	"	29	"	"	"	"	24	"	92	675	00
Kerrigan, Jas.	"	29	Vancouver	"	"	"	24	"	92	3	00
Fernie-Fort Steele Brewing Co., Ltd.	"	29	"	"	"	"	24	"	92	553	72

EXCISE—*Concluded.*

Articles.	To whom paid.	Date.	Divisions.	Under what Authority Refunded.	Amounts.	Totals.
		1912.			$ cts.	$ cts.
Malt—(*Continued*)	Hartinger, F.	April 29.	Vancouver	Refunded under Revised Statutes cap. 24 sec. 92	15 00	
	Elk Valley Brewing Co., The	" 29.	"	" " 24 " 92	155 96	
	Mueller & Hesse	" 29.	"	" " 24 " 92	30 00	
	British Columbia Distillery, Ltd.	" 29.	"	" " 24 " 92	52 50	
	Nelson, Nels	" 29.	"	" " 24 " 92	525 00	
	Nelson Brewing Co., Ltd., The	" 29.	"	" " 24 " 92	189 00	
	Phœnix Brewing Co.	" 29.	"	" " 24 " 92	120 00	
	Enterprise Brewing Co., The	" 29.	"	" " 24 " 92	77 60	
	Nelson Brewing Co., Ltd., The	" 29.	"	" " 24 " 92	37 50	
	Henderson, H.	" 29.	"	" " 24 " 92	71 54	
	Mueller, Aug.	" 29.	"	" " 24 " 92	60 00	
	Imperial Brewing Co., Ltd.	" 29.	"	" " 24 " 92	90 00	
	Canadian B. & M. Co., Ltd.	" 29.	"	" " 24 " 92	1,427 46	
	Vancouver Breweries Ltd., The	" 29.	"	" " 24 " 92	2,017 50	
					134,380 67	
				Less refunded by the National Breweries, Ltd.	415 65	
						133,965 02
Tobacco	Henry James	Oct. 7.	Montreal	Refunded under Revised Statutes, cap. 24, sec. 92	8 90	
	National Snuff Co., Ltd.	" 14.	"	" " 24 " 92	400 00	
		1913.				
	Hawkins, C. F.	Jan. 16.	"	" " 24 " 92	20 34	
	Owen Sound Cigar Co.	Mar. 18.	Owen Sound	" " 24 " 92	2 80	
	Cooke, H. E. & Co.	" 18.	"	" " 24 " 92	10 08	
	"	April 21.	"	" " 24 " 92	11 76	
						453 88
		1912.				
Officers' salary	Larue, L.	May 6.	Montreal	" " 24 " 92	300 00	

		1913.										
	Allen, C. E	April	21.	Brantford	"	"	24	"	92	300 00		
	Belleville Cider & Vinegar Co.	"	21.	Belleville	"	"	24	"	92	300 00		
												900 00
Excise Revenue on account of Stamps.		1912.										
	Imperial Tobacco Co. of Canada, Ltd	June	21.	Montreal	"	"	24	"	92			16 07
Excise Revenue on account of Labels	Robitaille Eureka Distillery, Ltd., The	"	21.	Quebec	"	"	24	"	92	130 00		
	" "	Sept.	18.	"	"	"	24	"	92	8 95		138 95
Cigars	Newbroun, F. V	May	6.	Guelph	"	"	24	"	92	50 00		
	Garbe, G	Oct.	16.	Toronto	"	"	24	"	92	50 00		100 00
		1912.			Grand total for Excise							157,034 27
Weights & Measures Inspection Fees	Broker & Co	June	10.	Moose Jaw	Refunded under Revised Statutes, cap. 24, sec. 92					0 75		
	City Scales	Oct.	1.	Winnipeg	"	"	24	"	92	1 50		
	Rat Portage Lumber Co	"	1.	"	"	"	24	"	92	0 83		
	Sharpe, C. J. & Son	"	1.	"	"	"	24	"	92	1 00		
		1913.										
	Lethbridge Collieries, Ltd	Feb.	10.	Calgary	"	"	24	"	92	6 40		10 48
		1912										
Electric Light Inspection Fees	Nicolet Electric Light Co	Dec.	11.	Three Rivers	"	"	24	"	92			1 50
Casual Revenue	Canadian Express Co	July	26.	Ottawa	"	"	24	"	92			12 00
					Grand total							157,058 25

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

DR. No. 16.—DEPARTMENTAL EXPENDITURES FOR 1912-1913. CR.

Due by sundry persons, April 1, 1912.	Disbursed by the Receiver General.	Deductions for			Totals.	——	Salaries.	Contingencies.	Due by sundry persons, March 31, 1913.	Totals.
		Superannuation.	Insurance.	Retirement.						
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.
.....	7,000 00	.....	.....	.....	7,000 00	....Minister of Inland Revenue	7,000 00	.....	.....	7,000 00
.....	89,597 99	508 75	423 90	2,877 68	93,408 32	....Departmental officers.....	93,408 32	.....	.....	93,408 32
.....	407 13	.....	.....	.....	407 13	....Subscription to newspapers.....	.....	407 13	.....	407 13
.....	3,624 66	.....	.....	.....	3,624 66	....Extra clerks, &c.....	.....	3,624 66	.....	3,624 66
.....	173 97	.....	.....	.....	173 97	....Telegraph companies.....	.....	173 97	.....	173 97
.....	50 75	.....	.....	.....	50 75	....Books and Parliamentary publications..	.....	50 75	.....	50 75
.....	1,711 47	.....	.....	.....	1,711 47	....Stationery.....	.....	1,711 47	.....	1,711 47
.....	1,418 89	.....	.....	.....	1,418 89	....Printing	.....	1,418 89	.....	1,418 89
.....	850 65	.....	.....	.....	850 65	....Sundry persons.....	.....	850 65	.....	850 65
16 66	.....	.....	.....	.....	16 66	... Balance due.....	.....	.....	16 66	16 66
16 66	104,835 51	508 75	423 90	2,877 68	108,662 50	.....Totals.....	100,408 32	8,237 52	16 66	108,662 50

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

WEIGHTS AND MEASURES, GAS, ELECTRIC LIGHT AND LAW STAMPS.

No. 17.—Statement showing amount of Revenue accrued during the year ended March 31, 1913.

Dr.

	Weights and Measures Stamps.	Gas Stamps.	Electric Light Stamps.	Law Stamps.			Totals.
				Supreme Court.	Exchequer Court.	Yukon Territorial Court.	
	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
To amount of stamps in the hands of distributors, April 1, 1912	98,705 78	62,815 20	55,333 10	82 55	.....	7,346 95	224,283 58
To stamps issued by the Inland Revenue Department during the year ended March 31, 1913	129,246 00	106,530 00	140,895 00	1,700 00	4,269 90	500 00	383,140 90
Totals	227,951 78	169,345 20	196,228 10	1,782 55	4,269 90	7,846 95	607,424 48

Cr.

By amount of stamps destroyed and returned by distributors	206 90	1,046 75	1,610 85	.....	.....	.....	2,864 50
By commission allowed	.....	.....	.....	.....	22 10	.....	22 10
By amount of stamps remaining in hands of distributors, March 31, 1913	126,984 41	105,553 55	119,833 15	54 65	53 80	5,867 80	358,347 66
By balance being the revenue during the year ended March 31, 1913	100,760 47	62,744 90	74,783 80	1,727 90	4,194 00	1,979 15	246,190 22
Totals	227,951 78	169,345 20	196,228 10	1,782 55	4,269 90	7,846 95	607,424 48

Inland Revenue Department,
Ottawa, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

No. 18 (A.)—INSPECTION DIVISIONS Account with Revenue.

Balances due by Inspectors, April 1, 1912.		Stamps issued to Inspectors.	Other Receipts.	Penalties.	Totals.	Divisions.	Damaged Stamps.	Deposited to the Credit of the Receiver General.	Balances due by Inspectors, March 31, 1913.		Totals.
Stamps on hand.	Cash on hand.								Stamps on hand.	Cash on hand.	
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
3,886 40	.....	1,900 00	.....	.....	5,786 40	....Belleville	.....	2,365 90	3,420 50	.....	5,786 40
6,378 43	.....	8,070 00	.....	25 00	14,473 43	....Hamilton....	....	10,162 99	4,310 44	.....	14,473 43
1,652 40	....	925 00	.....	.....	2,577 40	...Kingston	.....	1,519 05	1,058 35	.....	2,577 40
6,397 35	.....	15,290 00	....	.....	21,687 35	....London.....	45	10,251 85	11,435 05	.....	21,687 35
6,492 28	.....	4,950 00	50 00	.. ..	11,492 28	....Ottawa.....	46 10	5,084 37	6,361 81	....	11,492 28
10,292 19	.....	11,705 00	2 00	20 00	22,019 19	...Toronto....	.....	12,807 83	9,211 36	....	22,019 19
35,099 05	.....	42,840 00	52 00	45 00	78,036 05	....*Ontario*.....	46 55	42,191 99	35,797 51	....	78,036 05
27,491 45	.....	28,750 00	.....	.....	56,241 45	....Montreal....	.....	13,570 60	42,670 85	.. ..	56,241 45
3,324 55	.....	6,650 00	....	.....	9,974 55	... Quebec....	40 75	5,076 30	4,857 50	.....	9,974 55
.....	....	9,285 00	.....	.....	9,285 00	....Sherbrooke.....	.. ..	6,034 30	3,250 70	....	9,285 00
5,804 05	.. ..	1,000 00	.....	.....	6,804 05	....St. Hyacinthe..	1 50	3,966 40	2,812 50	23 65	6,804 05
1,794 65	.....	610 00	....	.....	2,404 65	... Three Rivers.....	.....	481 10	1,923 55	.....	2,404 65
38,414 70	.....	46,295 00	.....	.....	84,709 70	..... .*Quebec*.....	42 25	29,128 70	55,515 10	23 65	84,709 70
1,270 89	.. ..	4,150 00	. .. .	.....	5,420 89	.....*St. John, N.B*.....	.. ..	3,840 23	1,439 36	141 30	5,420 89
1,892 86	....	2,235 00	.....	.....	4,127 86	....Halifax.....	.....	1,480 67	2,647 19	.....	4,127 86
1,984 99	....	3,586 00	... ...	....	5,570 99	... Pictou.....	109 40	2,141 84	3,319 75	.....	5,570 99
3,877 85	.....	5,821 00	.....	.....	9,698 85	.....*Nova Scotia*	109 40	3,622 51	5,966 94	....	9,698 85
495 40	....	762 50	.....	.....	1,257 90	.....*Charlottetown, P.E.I*.....	... .	542 68	715 22	.....	1,257 90
8,565 14	.....	11,562 50	.....	.....	20,127 64	.....*Winnipeg, Man*.....	....	10,905 39	9,222 25	.....	20,127 64

1,969 45	.....	8,430 00	4 00	.....	10,403 45	..... *Saskatoon, Sask.*	8 70	2,689 10	7,705 65	.....	10,403 45
2,852 25	.....	3,465 00	.....	.....	6,317 25	..... *Calgary, Alta*	.....	3,700 22	2,617 03	.....	6,317 25
554 40	.....	3,045 00	.....	.....	3,599 40	..... Nelson	.....	1,250 95	2,348 45	.....	3,599 40
3,339 15	.....	2,875 00	.....	.....	6,214 15	..... Vancouver	.....	2,798 25	3,415 90	.....	6,214 15
3,893 55	.....	5,920 00	.....	.....	9,813 55	..... *British Columbia*	.....	4,049 20	5,764 35	.....	9,813 55
2,267 50	.....	.....	.....	.....	2,267 50	..... *Dawson, Yukon*	.....	26 50	2,241 00	.....	2,267 50
98,705 78	.....	129,246 00	56 00	45 00	228,052 78	..... Totals	206 90	100,696 52	126,984 41	164 95	228,052 78
.....	.....	.....	.....	.....	10 48	Refunds, as per Statement No. 15	.....	10 48	.....	.....	10 48
.....	.....	.....	.....	.....	228,042 30		.....	100,686 04	.....	.....	228,042 30
					1,411 10	Milk testing glasses	.....	1,411 10	.....	.....	1,411 10
					229,453 40		.....	102,097 14	.....	.....	229,453 40

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

WEIGHTS AND MEASURES, 1912-1913.

No. 18 (B).—Deputy Inspectors of Old Divisions in Account with Revenue.

Dr. Cr.

Balances due April 1, 1912. — Cash on hand.	Totals.	Divisions.	Balances due April 1, 1913. — Cash on hand.	Totals.
$ cts.	$ cts.		$ cts.	$ cts.
87 10	87 10	Essex, Ont.	87 10	87 10
5 62	5 62	Hull, Que.	5 62	5 62
92 72	92 72		92 72	92 72

W. HIMSWORTH,
Deputy Minister.

Inland Revenue Department,
Ottawa, June 1, 1913.

WEIGHTS AND MEASURES—1912-1913.

No. 19 (A)—Inspection Divisions in Account with Expenditures.

DR. CR.

Balance due by Inspectors, April 1, 1912.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for			Totals.	Divisions.	Expenditures Authorized by the Department.						Amounts due by Inspector, March 31, 1913.	Totals.
		Superannuation.	Insurance.	Guarantee			Salaries.	Special Assistance	Seizures.	Rent.	Travelling Expenses.	Sundries.		
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$cts	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
.	5,316 60	29 96	.....	8 30	5,354 86	Belleville	3,322 86	65 00	....	141 25	1,120 87	104 88	.	5,354 86
.....	8,912 00	.....	.....	13 80	8,925 80	Hamilton	6,741 29	200 00	...	....	1,843 79	140 72	....	8,925 80
.....	2,809 15	.....	.....	6 30	2,815 45	Kingston	2,199 90	150 00	....	.....	417 25	18 30	.....	2,815 45
.....	7,544 34	.....	.....	9 45	7,553 79	London	4,504 06	611 07	...	.. ....	2,083 63	355 03	.....	7,553 79
. ....	7,832 13	29 43	.....	9 14	7,870 67	Ottawa	4,260 72	1,685 08	....	....	1,819 19	105 68	. ...	7,870 67
...	9,775 64	20 60	.....	13 65	9,809 89	Toronto	6,866 44	709 99	....	....	2,084 77	148 69	.....	9,809 89
... .	42,189 86	79 99	.....	60 61	42,330 46	*Ontario*	27,895 27	3,421 14	....	441 25	9,369 50	1,203 30	.....	42,330 46
..	13,060 86	22 96	... .	16 05	13,099 87	Montreal	8,420 70	650 00	....	1,350 00	2,433 49	245 68	.....	13,099 87
.	12,558 66	38 40	...	14 85	12,611 91	Quebec	7,099 72	2,604 16	...	366 67	2,326 83	214 53	.....	12,611 91
.....	5,816 37	.....	...	6 90	5,823 27	St. Hyacinthe	3,233 16	1,188 20	..	.....	1,286 01	115 90	....	5,823 27
... .	1,840 21	.....	66 00	5 40	1,911 61	Three Rivers	1,665 47	.....	....	.....	192 88	53 29	.....	1,911 64
... ..	4,034 27	.....	.. ....	3 30	4,037 57	Sherbrooke	1,266 65	1,246 41	....	325 00	951 37	248 14	.....	4,037 57
.....	37,310 40	61 36	66 00	46 50	37,484 26	*Quebec*	21,685 70	5,688 77	....	2,041 67	7,190 58	877 54	.....	37,481 26
.....	5,212 90	.....	.....	8 40	5,221 30	*St. John, N.B.*	3,399 82	800 00	....	... .	974 68	46 80	....	5,221 30
.....	4,654 56	.....	.....	6 60	4,661 16	Halifax	2,199 88	1,059 92	.. .	507 36	769 64	124 36	.....	4,661 16
.....	4,425 23	24 00	.....	5 40	4,454 63	Pictou	2,100 00	1,218 00	. ..	.....	945 90	190 73	.....	4,454 63
.....	9,079 79	24 00	.....	12 00	9,115 79	*Nova Scotia*	4,299 88	2,277 92	. ..	507 36	1,715 54	315 09	.....	9,115 79
.....	2,192 49	... ..	.....	5 40	2,197 89	*Charlottetown, P.E.I.*	1,858 25	60 00	....	.... ..	251 01	28 63	. ..	2,197 89

WEIGHTS AND MEASURES—1912–1913.

No. 19 (A)—Inspection Divisions in Account with Expenditures.

Dr. Cr.

Balance due by Inspectors, April 1, 1912.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for			Totals.	Divisions.	Expenditures Authorized by the Department.						Amounts due by Inspector, March 31, 1913.	Totals.
		Superannuation.	Insurance.	Guarantee			Salaries.	Special Assistance	Seizures.	Rent.	Travelling Expenses.	Sundries.		
$ cts.	$ cts	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$cts	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
.....	8,845 77	.....	.....	12 60	8,858 37	....*Winnipeg, Man*.....	5,416 43	593 90	. ..	.....	2,556 15	291 89	.....	8,858 37
.....	4,827 26	27 20	.....	5 85	4,860 31	.. .*Calgary, Alberta*....	2,545 75	343 00	....	.....	1,904 70	66 86	... .	4,860 31
3 70	5,015 78	.....	....	3 70	5,023 18	....*Saskatoon*	1,800 06	1,238 74	....	.....	1,448 33	532 35	3 70	5,023 18
.....	2,879 81	.....	.....	3 66	2,883 41	..Nelson.....	1,249 92	173 47	....	15 00	1,292 40	152 62	....	2,883 41
.....	3,826 62	.....	.....	8 40	3,835 02	..Vancouver.....	3,166 52	12 00	0 75	.....	200 05	455 70	.....	3,835 02
.....	6,706 43	... .	.....	12 00	6,718 43	....*British Columbia*....	4,416 44	185 47	0 75	15 00	1,492 45	608 32	.....	6,718 43
.. .	1,028 65	.....	.....	3 60	1,032 25	....*Dawson, Yukon*.....	1,000 00	.....	....	....	24 00	8 25	.....	1,032 25
3 70	122,409 33	192 55	66 00	170 66	122,842 24		74,317 60	14,608 94	0 75	3,005 28	26,926 94	3,979 03	3 70	122,842 24
...	170 63	.....	.....	.....	170 63	..Chief Inspector.....	.....	46 80	....	. .....	76 35	47 48	.....	170 63
....	4,936 82	.....	....	.....	4,936 82	..General Contingencies.	.....	.....	....	. . ....	.....	4,936 82	.....	4,936 82
... .	1,200 70	.....	.....	.....	1,200 70	..Printing	....	.....	....	.....	....	1,200 70	.....	1,200 70
.....	549 65	.....	.....	.....	549 65	..Stationery	.....	.....	....	.....	.....	549 65	.... .	549 65
.....	1,432 37	.....	.....	.....	1,432 37	..Provisional allowance..	.....	....	....	.....	.....	1,432 37	.....	1,432 37
.....	216 00	....	.....	.....	216 00	..International Bureau of Weights & Measures..	.....	. .....	....	.....	.....	216 00	.....	216 00
3 70	130,915 50	192 55	66 00	170 66	131,348 41	..... Grand totals....	74,317 60	14,655 74	0 75	3,005 28	27,003 29	12,362 05	3 70	131,348 41

Inland Revenue Department,
Ottawa, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

WEIGHTS AND MEASURES, 1912-1913.

DR. No. 19 (B).—OLD INSPECTION DIVISIONS in Account with Expenditures. CR.

Balances due by sundry persons, April 1, 1912.	Totals.	Divisions.	Balances due by sundry persons, March 31, 1913.	Totals.
$ cts.	$ cts.		$ cts.	$ cts.
39 56	39 56	Essex	39 56	39 56
33 53	33 53	Waterloo	33 53	33 53
73 09	73 09	*Ontario*	73 09	73 09
0 33	0 33	Drummond	0 33	0 33
41 45	41 45	Laval	41 45	41 45
26 88	26 88	Montmorency	26 88	26 88
27 51	27 51	Richelieu	27 51	27 51
96 17	96 17	*Quebec*	96 17	96 17
24 00	24 00	Lunenburg, Nova Scotia	24 00	24 00
193 26	193 26	Totals	193 26	193 26

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

DR. No. 20.—INSPECTION DISTRICTS in Account with Revenue. CR.

Balances due by Inspectors, March 31, 1912.		Stamps issued to Inspectors.	Other Receipts.	Totals.	Districts.	Damaged Stamps.	Deposited to the credit of the Receiver General.	Balances due by Inspectors, March 31, 1913.		Totals.
Stamps on hand.	Cash on hand.							Stamps on hand.	Cash on hand.	
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
1,035 90				1,035 90	Barrie		136 20	899 70		1,035 90
723 25				723 25	Belleville		156 20	567 05		723 25
1,621 30		480 00		2,101 30	Berlin		558 60	1,542 70		2,101 30
1,169 70		1,400 00		2,569 70	Brockville		163 20	2,406 50		2,569 70
296 05		180 00		476 05	Cobourg		173 60	302 45		476 05
249 00		700 00		949 00	Cornwall		94 20	854 80		949 00
853 25		600 00		1,453 25	Guelph		636 00	817 25		1,453 25
4,811 50		9,300 00		14,111 50	Hamilton		7,638 70	6,472 80		14,111 50
729 30		1,740 00		2,469 30	Kingston		470 00	1,999 30		2,469 30
248 30				248 30	Listowel		33 00	215 30		248 30
2,703 90		5,000 00		7,703 90	London		3,821 70	3,882 20		7,703 90
213 50				213 50	Napanee		18 00	195 50		213 50
5,998 05		900 00		6,898 05	Ottawa		1,810 10	5,087 95		6,898 05
472 00		300 00		772 00	Owen Sound		242 20	529 80		772 00
1,175 55				1,175 55	Peterborough		317 20	858 35		1,175 55
949 90		500 00		1,449 90	Sarnia		414 50	1,035 40		1,449 90
1,176 45		800 00		1,976 45	Stratford		157 40	1,819 05		1,976 45
8,793 45		13,200 00		21,993 45	Toronto		15,013 20	6,980 25		21 993 45
1,181 15		340 00		1,421 15	Woodstock		319 20	1,101 95		1,421 15
34,301 50		35,440 00		69,741 50	*Ontario*		32,173 20	37,568 30		69,741 50
7,562 90		12,300 00	2 50	19,865 40	Montreal		17,118 70	2,746 70		19,865 40
2,487 40		1,450 00		3,937 40	Quebec		685 80	3,251 60		3,937 40
670 60				670 60	Sherbrooke		144 00	526 60		670 60
1,096 80				1,096 80	St. Hyacinthe		102 00	994 80		1,096 80
11,817 70		13,750 00	2 50	25,570 20	*Quebec*		18,050 50	7,519 70		25,570 20
575 75				575 75	Fredericton			575 75		575 75
462 95		1,380 00		1,842 95	St. John		1,054 70	788 25		1,842 95

1,038 70		1,380 00		2,418 70	*New Brunswick*		1,054 70	1,364 00	2,418 70
1,381 10				1,381 10	*Halifax, N.S.*		345 00	1,036 10	1,381 10
1,219 25				1,219 25	*Charlottetown, P.E.I.*		50 20	1,169 05	1,219 25
4,686 75		40,000 00		44,686 75	*Winnipeg, Man.*		2,809 10	41,877 65	44,686 75
2,255 20		12,700 00		14,955 20	*Calgary*		4,668 30	10,286 90	14,955 20
217 95		60 00		277 95	Nanaimo		116 40	161 55	277 95
934 50				924 50	New Westminster		84 00	840 50	924 50
2,829 40		2,400 00		5,229 40	Vancouver		2,644 40	2,585 00	5,229 40
2,143 15		800 00		2,943 15	Victoria	1,046 75	751 60	1,144 80	2,943 15
6,115 00		3,260 00		9,375 00	*British Columbia*	1,046 75	3,596 40	4,731 85	9,375 00
62,815 20		106,530 00	2 50	169,347 70	Totals	1,046 75	62,747 40	105,553 55	169,347 70

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

GAS INSPEC

DR. No. 21.—INSPECTION DISTRICTS IN

Balances due by Inspectors, April 1, 1912.	Amounts received from Department to meet Expenditures.	Deductions from Salaries for Superannuation.	Deductions from Salaries for Retirement.	Deductions from Salaries for Guarantee.	Totals.	Districts.
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	
	94 40	2 00		3 60	100 00	Barrie
	574 50	6 05		2 85	583 40	Belleville
	297 45			3 60	301 05	Berlin
	233 24	2 00		3 60	238 84	Cobourg
	328 43	6 00		3 60	338 03	Guelph
	3,215 92			5 56	3,221 48	Hamilton
	163 90			3 60	167 50	Listowel
	3,135 99			5 40	3,141 39	London
	5,667 25			10 81	5,678 06	Ottawa
	196 40			3 60	200 00	Owen Sound
	146 40			3 60	150 00	Peterborough
	200 15			3 60	203 75	Sarnia
	216 02	0 33		3 60	219 95	Stratford
	9,446 22		79 92	14 85	9,540 99	Toronto
	211 20			1 80	213 00	Woodstock
	24,127 47	16 38	79 92	73 67	24,297 44	*Ontario.*
	5,709 67			11 46	5,721 13	Montreal
	2,495 92	23 51		7 20	2,526 63	Quebec
	340 56	3 96		5 40	349 92	Sherbrooke
	98 20			1 80	100 00	St. Hyacinthe
	8,644 35	27 47		25 86	8,697 68	*Quebec*
	98 20			1 80	100 00	Fredericton
	1,502 35			3 60	1,505 95	St. John
	1,600 55			5 40	1,605 95	*New Brunswick*
	3,077 74	1 92		7 20	3,086 86	Halifax
12 88					12 88	Pictou
12 88	3,077 74	1 92		7 20	3,099 74	*Nova Scotia*
	496 40			3 60	500 00	*Charlottetown, P.E.I.*
	3,452 08			7 53	3,459 61	*Winnipeg, Man*
	821 25				821 25	*Calgary, Alta*
	96 40			3 60	100 00	Nanaimo
	186 36		9 96	3 60	199 92	New Westminster
	111 00				111 00	Vancouver
	1,027 44	1 50		3 55	1,032 49	Victoria
	1,421 20	1 50	9 96	10 75	1,443 41	*British Columbia*
12 88	43,641 04	47 27	89 88	134 01	43,925 08	
200 00					200 00	General
	291 09				291 09	Eastern Dominion Inspection
	42 80				42 80	Western "
	824 01				824 01	General Contingencies
	4,111 78				4,111 78	Printing
	1,071 61				1,071 61	Stationery
212 88	49,982 33	47 27	89 88	134 01	50,466 37	*Grand Total*

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

TION 1912–13.

ACCOUNT WITH EXPENDITURES. CR.

Expenditures Authorized by the Department.					Balances due by Inspectors, March 31, 1913.	Totals.
Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
100 00						100 00
394 15	65 00	181 25	28 50	4 50		583 40
200 00	30 00		66 90	4 15		301 05
100 00	24 00		39 25	75 59		238 84
300 00	20 00			18 03		338 03
2,057 71	176 61	120 00	687 38	179 78		3,221 48
100 00	9 00	58 50				167 50
2,499 96	196 98		402 50	41 95		3,141 39
4,106 80	1,025 00	420 00		126 26		5,678 06
200 00						200 00
150 00						150 00
200 00				3 75		203 75
200 00	12 00			7 95		219 95
7,969 67	1,437 81			133 51		9,540 99
200 00	12 00			1 00		213 00
18,688 29	3,008 40	779 75	1,224 53	596 47		24,297 44
5,216 50	66 00	240 00	50 00	148 63		5,721 13
1,479 05	60 00	108 33		679 25		2,526 63
349 92						349 92
100 00						100 00
7,345 47	126 00	348 33	50 00	827 88		8,697 68
100 00						100 00
1,300 00			130 65	75 30		1,505 95
1,400 00			130 65	75 30		1,605 95
2,299 80	35 00	507 36	238 05	6 65		3,086 86
					12 88	12 88
2,299 80	35 00	507 36	238 05	6 65	12 88	3,099 74
500 00						500 00
3,459 61						3,459 61
	546 50		16 50	258 25		821 25
100 00						100 00
199 92						199 92
	32 00			79 00		111 00
1,032 49						1,032 49
1,332 41	32 00			79 00		1,443 41
35,025 58	3,747 90	1,635 44	1,659 73	1,843 55	12 88	43,925 08
					200 00	200 00
			288 85	2 24		291 09
			18 35	24 45		42 80
				824 01		824 01
				4,111 78		4,111 78
				1,071 61		1,071 61
35,025 58	3,747 90	1,635 44	1,966 93	7,877 64	212 88	50,466 37

W. HIMSWORTH,

Deputy Minister.

4 GEORGE V., A. 1914

ELECTRIC LIGHT

DR.

No. 22.—INSPECTION DISTRICTS

Balances due by Inspectors, March 31, 1912.		Stamps issued to Inspectors.	Other Receipts.	Totals.	Districts.
Stamps on hand.	Cash on hand.				
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	
763 20		3,130 00		3,893 20	Belleville
		4,500 00		4,500 00	Fort William
2,138 80		6,200 00		8,338 80	Hamilton
2,227 25		3,620 00		5,847 25	London
5,639 40		3,000 00	50 00	8,689 40	Ottawa
4,614 85		15,250 00		19,864 85	Toronto
15,383 50		35,700 00	50 00	51,133 50	*Ontario*
5,823 85		10,000 00		15,823 85	Montreal
2,024 45		600 00		2,624 45	Quebec
1,119 60		300 00		1,419 60	Sherbrooke
811 00		300 00		1,111 00	St. Hyacinthe
1,255 50		120 00		1,375 50	Three Rivers
11,034 40		11,320 00		22,354 40	*Quebec*
1,164 30		975 00		2,139 30	*St. John, N.B.*
1,686 90		1,575 00		3,261 90	*Halifax, N.S.*
914 95				914 75	*Charlottetown, P.E.I.*
5,730 45		60,750 00		66,480 45	*Winnipeg, Man.*
1,862 60		12,900 00		14,762 60	*Regina, Sask.*
3,382 60		4,425 00		7,807 60	Calgary
2,954 50		3,300 00		6,254 50	Edmonton
6,337 10		7,725 00		14,062 10	*Alberta*
7,394 15		7,800 00		15,194 15	Vancouver
2,474 95		2,150 00		4,624 95	Victoria
9,869 10		9,950 00		19,819 10	*British Columbia*
1,350 00				1,350 00	*Yukon*
55,333 10		140,895 00	50 00	196,278 10	Totals
				1 50	Refunds as per Statement No. 15.
				196,276 60	
				475 00	Export of Electric Light Licenses
				34 75	Electrical Standards of Laboratory
				196,786 35	

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

SESSIONAL PAPER No. 12

INSPECTION, 1912-1913.

in Account with Revenue. CR.

Damaged Stamps.	Deposited to the Credit of the Receiver General.	Balances due by Inspectors, March 31, 1913.		Totals.
		Stamps on hand.	Cash on hand.	
$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
.....	1,888 90	2,004 30	.....	3,893 20
50 00	68 20	4,381 80	.....	4,500 00
129 25	4,339 05	3,870 50	.....	8,338 80
61 00	3,315 80	2,470 45	.....	5,847 25
201 25	3,772 55	4,715 60	.....	8,689 40
180 50	14,445 60	5,238 75	.....	19,864 85
622 00	27,830 10	22,681 40	.....	51,133 50
11 25	9,785 30	6,027 30	.....	15,823 85
24 50	781 80	1,818 15	.....	2,624 45
62 25	502 10	855 25	.....	1,419 60
58 75	258 75	793 50	.....	1,111 00
.....	147 90	1,227 60	.....	1,375 50
156 75	11,475 85	10,721 80	.....	22,354 40
33 25	1,227 75	878 30	.....	2,139 30
37 25	1,679 70	1,544 95	.....	3,261 90
14 00	115 35	785 40	.....	914 75
500 10	12,250 50	53,729 85	.....	66,480 45
97 50	2,271 90	12,390 20	.....	14,762 60
9 50	3,833 55	3,964 55	.....	7,807 60
101 00	2,808 35	3,345 15	.....	6,254 50
110 50	6,641 90	7,309 70	.....	14,062 10
.....	9,096 30	6,097 85	.....	15,194 15
39 50	2,241 45	2,344 00	.....	4,624 95
39 50	11,337 75	8,441 85	.....	19,819 10
.....	.....	1,350 00	.....	1,350 00
1,610 85	74,833 80	119,833 45	.....	196,278 10
.....	1 50	.....	.....	1 50
.....	74,832 30	.....	.....	196,276 60
.....	475 00	.....	.....	475 00
.....	31 75	.....	.....	31 75
.....	75,342 05	.....	.....	196,786 35

W. HIMSWORTH,
Deputy Minister.

ELECTRIC LIGHT INSPECTION, 1912-1913.

No. 23.—Inspection Districts in Account with Expenditures.

Due by Inspectors April 1, 1912.	Amounts received from Department to meet expenditures.	Guarantee.	Totals.	Districts.	Expenditures Authorized by the Department.					Balance due by Inspectors March 31, 1913.	Totals.
					Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.		
$ cts.	$ cts.	$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
.....	1,500 04	7 63	1,507 67	....Belleville.....	1,036 25	20 00	.....	434 30	17 12	.....	1,507 67
.....	383 59	0 73	384 32	....Fort William.....	245 16	2 00	.....	87 65	49 51	.....	384 32
.....	673 88	.....	673 88	....Hamilton	.....	250 25	.....	228 10	195 53	.....	673 88
.....	471 74	.....	471 74	....London.....	.....	62 49	.....	371 90	37 35	.....	471 74
.....	681 80	.....	681 80	....Ottawa.....	.....	.....	.....	681 80	.....	.....	681 80
.....	1,001 19	.....	1,001 19	...Toronto.....	.....	.....	.....	947 45	53 74	.....	1,001 19
.....	330 61	0 54	331 15	....E. A. Kinsman.....	331 15	.....	.....	.....	.....	.....	331 15
.....	1,165 89	.....	1,165 89	....Montreal.....	.....	1,056 91	.....	72 45	36 53	.....	1,165 89
.....	495 21	.....	495 21	....Quebec.....	.....	60 00	161 25	23 90	250 06	.....	495 21
.....	162 86	.....	162 86	....Sherbrooke.....	.....	.....	.....	143 41	19 45	.....	162 86
.....	391 60	1 80	393 40	....St. Hyacinthe	300 00	.....	.....	91 50	1 90	.....	393 40
.....	733 22	1 80	735 02	....Three Rivers.....	500 00	.....	120 00	100 00	15 02	.....	735 02
.....	223 50	.....	223 50	...St. John.....	.....	.....	.....	202 35	21 15	.....	223 50
.....	531 12	.....	531 12	....Halifax	.....	25 00	.....	419 74	86 38	.....	531 12
.....	115 72	.....	115 72	....Charlottetown	.....	40 00	.....	30 40	45 32	.....	115 72
.....	3,227 88	.....	3,227 88	....Winnipeg	.....	2,135 26	325 00	571 60	196 02	.....	3,227 88
.....	2,209 17	4 50	2,213 67	....Calgary	1,800 00	22 00	.....	280 80	110 87	.....	2,213 67
.....	1,745 79	3 60	1,749 39	....Edmonton.....	1,500 00	.....	.....	154 55	94 84	.....	1,749 39
300 00	2,599 82	3 60	2,903 42	....Regina.....	1,300 00	.....	.....	1,104 45	498 97	.....	2,903 42
.....	6,238 12	10 35	6,248 47	....Vancouver.....	4,699 92	849 96	.....	303 19	395 49	.....	6,248 47
.....	159 45	.....	159 45	....Victoria.....	.....	17 00	.....	104 00	38 45	.....	159 45
.....	496 40	3 60	500 00	....Yukon	500 00	.....	.....	.....	.....	.....	500 00
.....	1,292 26	.....	1,292 26	....Chief Electrical Engineer.....	.....	313 00	.....	140 87	838 39	.....	1,292 26
.....	2,658 23	3 60	2,661 83	....Inspector Eastern Dominion...	2,474 98	.....	.....	186 85	.....	.....	2,661 83
.....	3,463 16	3 60	3,466 76	.... " Western " ..	2,474 98	.....	.....	628 35	363 43	.....	3,466 76
.....	8,700 97	.....	8,700 97	...General Contingencies.....	.....	.....	.....	.....	8,700 97	.....	8,700 97
.....	223 68	.....	223 68	....Printing.....	.....	.....	.....	.....	223 68	.....	223 68
.....	246 47	.....	246 47	....Stationery.....	.....	.....	.....	.....	246 47	.....	246 47
.....	244 16	.....	244 16	....International Electro-technical Commission	.....	.....	.....	.....	244 16	.....	244 16
300 00	42,367 53	45 35	42,712 88	Totals.....	17,162 44	4,853 87	606 25	7,309 52	12,780 80	.....	42,712 88

Inland Revenue Department,
Ottawa, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

No. 24.—STATEMENT showing the Amounts voted and the Expenditures for each service for the year ended March 31, 1913.

Services.	Grants.	Expenditures.	Over Expenditures.	Under Expenditures.
	$ cts.	$ cts.	$ cts.	$ cts.
Minister's salary	7,000 00	7,000 00		
Departmental salaries	110,383 29	93,408 32		16,974 97
" contingencies	8,300 00	8,237 52		62 48
Excise salaries	508,000 00	478,120 08		29,879 92
" contingencies	112,000 00	111,511 25		488 75
Duty pay at large distilleries and other factories	15,000 00	13,502 99		1,497 01
Duty pay other than special survey	1,500 00	1,350 00		150 00
Preventive service, salaries and contingencies	13,000 00	10,517 80		2,482 20
Tobacco stamps	123,000 00	119,676 68		3,323 32
Excise Commission to Customs Officers	10,000 00	3,886 87		6,113 13
Tobacco stamps commission	100 00			100 00
Technical translation	200 00	18 01		181 59
Provisional allowance, Excise	10,000 00	8,908 54		1,091 46
" Weights and Measures	3,000 00	1,432 37		1,567 63
Methylated spirits, contingencies	96,000 00	95,993 45		6 55
Weights and Measures, salaries	85,000 00	74,317 60		10,682 40
" contingencies	64,000 00	55,378 74		8,621 26
Gas and electric light salaries	52,200 00	52,188 02		11 98
" contingencies	45,000 00	40,234 19		4,765 81
Adulteration of food, salaries and contingencies	30,000 00	21,974 91		8,025 09
Minor expenditures	500 00	37 20		462 80
Export of electric power	1,000 00	334 45		665 55
International Bureau of Weights and Measures	216 00	216 00		
Proprietary or patent medicines	1,500 00	507 93		992 07
International Electro-Technical Commission	250 00	214 16		5 84
Special vote (H. H. grant)	200 00	200 00		
	1,297,349 29	1,199,197 08		98,152 21

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

DR. No. 25—STATEMENT showing the transactions in connection with the manufacture of Methylated Spirits for the year ended March 31, 1913. CR.

	Amounts.	Totals.		Amounts.	Totals.
	$ cts.	$ cts.		$ cts.	$ cts.
To stock on hand at the end of the year 1912, viz.....	.....	6,553 79	By cash received on account of Methylated Spirits, &c., sold during the year ended March 31, 1913	....	118,077 77
Alcohol 1,730·19 Proof Galls. at 20c	346 04		Methylated Spirits 148,927·49 Std. Galls. = 246,637·02 Proof Galls.:—		
Wood Naphtha 4,860·65 Proof Galls. = 2,910·57 Std. Galls. at 72 cents	2,095 61		31,660 15 Std. Galls. at 53c.....	16,779 77	
Wood Naphtha 5,689·47 Proof Galls. = 4,127½ Galls. W. M. at 47c.	1,939 92		43,579·83 " at 55c..	23,968 84	
Methylated Spirits 124·08 Std. Galls. = 205·50 Proof Galls. viz.:			1,107·03 " at 60c.....	664 21	
42·46 Std. Galls. at 55c..	23 35		24,224·24 " at 63c.....	15,261 05	
81·62 " at 65c.....	53 05		32,904·52 " at 65c.....	21,387 65	
Barrels on hand 300 at $4. Drums 40 at $10; 1 at $4	1,616 00		15,451·72 " at 75c.....	11,588 55	
Pyrodine on hand	479 82		Barrels, 5,195 at $4	20,780 00	
			Drums 646 at $10, 1 at $12, 147 at $8.....	7,648 00	
To Methylated Spirits sold and not paid up to March 31, 1912:—			Can 2 at $1.....	2 00	
4,950·81 Std. Galls. = 8,198·58 Proof Galls.:—		3,371 57		118,080 07	
1,925·27 " at 53c.....	1,020 39		Add 40c. for express charges and deduct $2.70 for freight....	2 30	
1,235·87 " at 55c.....	679 72				
43·80 " at 60c.....	26 28		Methylated Spirits sold and not paid up to March 31, 1913.		
807·68 " at 63c.....	508 82		Std. Galls. = 3,786·05 = Proof Galls. 6,269·73.		2,626 21
632·79 " at 65c	411 30		901·04 Std. Galls. at 53c.....	477 55	
305·40 " at 75c.....	229 06		1,021·61 " at 55c.....	561 88	
Barrels, 74 at $4; Drums, 20 at $10.....	496 00		79 18 " at 60c.....	47 51	
			876·44 " at 63c..... .. .	552 16	
Barrels returned and unpaid for up to March 31, 1912, 141 at $4.....		564 00	617·14 " at 65c.....	401 13	
Drums returned and unpaid for up to March 31, 1912, 56 at $10; 1 at $12		572 00	290·64 " at 75c.....	217 98	
Alcohol bought and unpaid for up to March 31, 1913 7,531·27 Proof Galls. at 20c.....	1,506 25	1,934 25	Barrels, 62 at $4; Drums, 12 at $10.....	368 00	
Barrels, 107 at $4.....	428 00		Alcohol bought, taken in stock and unpaid up to March 31, 1912:—		9,496 20
Disbursements for purchases of material, &c.:—		91,496 51	Alcohol 25,738·46 Proof Galls. at 20c.....	5,147 69	
Alcohol 234,331·13 Proof Galls. at 20c....	46,866 23		Wood Naphtha 5,725·56 Proof Galls. = 3,428·49 Std. Galls. at 72c.	2,468 51	
Wood Naphtha 20,603·03 Std. Galls. = 34,475·48 Proof			Barrels, 370 at $4; Drums 40 at $10	1,880 00	

Galls.:—			Stock on hand on March 31, 1913:—		3,831 54
Wood Naphtha 7,175·15 at 74c.	5,309 61		3,257·43 Proof Galls. Methylated Spirits= to 1,967·05 Std. Galls.		
" 13,427·88 at 72c.	9,668 06		1,056·45 Std. Galls. at 55c	581 04	
" short paid on 2,211·39 at 4¾c.	105 04		910·60 " at 65c	591 89	
Paid for duty on 3,439 Galls. (Wood Naphtha imported)	687 80		Alcohol 5,847·13 at 20c	1,169 13	
Gasoline, 60 Galls. at 20c.; 44¼ at 22c.; 40·6 at 24c.; 308·58 at 26c.; 45·40 at 27½c.; 20 at 20½c.; 28 at 21c.; 44·9 at 23c.; 138·60 at 28c.; 96·20 at 29c.,			Wood Naphtha 1,882·88 Proof Galls. to 1,120·76 Std. Galls. at 74c.	829 36	
$211·25, less empty barrels, $18.70	192 55		Pyrodine in stock	479 82	
Barrels, 5,142 at $4; Drums, 207 at $8, 649 at $10.	28,714 00		Barrels, on hand 266 at $4; Drums, 72 at $10, 4 at $4	1,800 00	
1 Dormant W. House Scale, $114.50; motor oil, 47c.	114 97		Barrels destroyed 37		
	91,658 26				
Less freight and cartage	161 75				
To other expenses as follows:—		9,863 19			
Salaries (paid from depart. Civil Govt. Vote)	4,100 00				
Salaries (paid from Civ. Govt. Contingencies)	1,266 25				
Special assistance	156 45				
Freight	3,107 72				
Stationery	21 10				
Printing	26 34				
Sundries, including fuel, repairs, &c.	885 33				
Profit		19,676 41			
Methylated Spirits manufactured during the year, 247,760·10 Proof Galls. = 149,605·70 Std. Galls.			Alcohol used in manufacture 212,007·21 Proof Galls. Wood Naphtha 37,117·13 = Proof Galls. 22,350·94 Std. Galls.		
Total		131,031 72	Total		131,031 72

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.

STATISTICS

APPENDIX A.—SPIRITS.

No. 1.—Return of Manufactures for

Divisions.	Licenses.		Materials Taken for Use.				
			Grain.				
	No.	Fees.	Malt.	Indian Corn.	Rye.	Oats.	Wheat.
		$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
Belleville, Ont.	1	250	540,642	7,104,040	471,800	.....	.....
Guelph "	1	250	328,660	4,487,400	686,020	33,240	365,680
Hamilton "	1	250	140,690	2,359,060	214,895	19,950	474,205
Perth "	2	500	321,716	.....	.....	.....	.....
Prescott "	1	250	275,165	4,755,970	669,459	25,250	152,740
Toronto "	2	500	1,575,857	19,592,060	3,203,406	353,944	.....
Windsor "	1	250	1,215,574	20,877,600	4,163,760	174,700	.....
Totals	9	2,250	4,398,364	59,176,130	9,409,340	627,084	992,625
Joliette, Que	1	250	2,011,525	1,971,775	2,124,675	.....	.....
Montreal "	1	250	.....	.....	.....	.....	.....
Quebec "	1	250	.....	.....	.....	.....	.....
St. Hyacinthe, Que.	1	250	128,100	1,845,775	120,800	.....	36,125
Totals	4	1,000	2,139,625	3,817,550	2,245,475	.....	36,125
Vancouver, B.C.	1	250	99,700	54,875	41,675	13,510	1,997,315
Grand Totals	14	3,500	6,637,629	63,948,555	11,696,490	640,594	3,026,065

No. 2.—Comparative Statement of Manufactures for

1912.							
Ontario	9	2,250	3,437,626	47,287,522	7,111,770	490,795	1,535,877
Quebec	4	1,000	2,095,986	4,359,265	2,135,894	.....	101,005
Manitoba	1	250	64,972	391,663	126,107	.....	18,673
British Columbia	1	250	77,920	365,110	100,860	10,640	1,196,285
Totals	15	3,750	5,676,504	52,403,560	9,474,631	501,435	2,851,840
1913.							
Ontario	9	2,250	4,398,301	59,176,130	9,409,340	627,084	992,625
Quebec	4	1,000	2,139,625	3,817,550	2,245,475	.....	36,125
British Columbia	1	250	99,700	54,875	41,675	13,510	1,997,315
Totals	14	3,500	6,637,629	63,048,555	11,696,490	640,594	3,026,065

Inland Revenue Department,
Ottawa, June 1, 1913.

the Fiscal Year ended March 31, 1913.

Total Grain.	Molasses.	Used in Spirits Manufactured.		Proof Spirits Manufactured.	Duty Collected ex-Manufactory, on Deficiencies and Assessments.		Total Duty Collected ex-Manufactory, including License Fees.
		Grain.	Molasses.				
Lbs.	Lbs.	Lbs.	Lbs.	Galls.	Galls.	$ cts.	$ cts.
8,116,482	.....	8,103,882	.....	505,262·22	.....	.....	250 00
5,901,000	.....	5,887,000	.....	357,523·29	462·63	879 00	1,129 00
3,208,800	.....	3,186,890	.....	194,617·83	1,161·86	2,207 53	2,457 53
321,716	.....	319,480	.....	17,204·99	16·72	32 10	532 10
5,878,584	.....	5,878,584	.....	348,355·26	.....	.....	250 00
24,725,267	17,152,346	24,653,267	17,152,346	2,340,605·03	860 99	1,635 88	2,135 88
26,431,634	.....	26,266,634	.....	1,572,056·07	.....	.....	250 00
74,583,483	17,152,346	74,295,647	17,152,346	5,335,624·69	2,502 20	4,754 51	7,004 51
6,107,975	.....	6,079,125	.....	306,005·66	.....	.....	250 00
.....	9,733,150	.....	9,733,150	567,744 17	.....	.....	250 00
.....	.....	.....	.....	174 21	.....	.....	250 00
2,130,800	.....	2,114,000	.....	127,257 82	.....	.....	250 00
8,238,775	9,733,150	8,193,125	9,733,150	1,001,181 86	.....	.....	1,000 00
2,207,075	.....	2,190,875	.....	121,645 47	5·61	10 66	260 66
85,029,333	26,885,496	84,679,647	26,885,496	6,458,452·02	2,507·81	4,765 17	8,265 17

the Fiscal Years ended March 31, 1912 and 1913.

59,863,590	8,682,660	59,755,626	8,682,660	3,678,031·85	9,317·02	17,703 30	19,953 30
8,692,150	.....	8,820,800	.....	971,619·19	.....	.....	1,000 00
601,415	.....	609,165	.....	33,484·40	.....	.....	250 00
1,750,815	.....	1,764,015	.....	101,260·71	.....	.....	250 00
70,907,970	8,682,660	70,947,606	8,682,660	4,784,396·15	9,317·02	17,703 30	21,453 30
74,583,483	17,152,346	74,295,647	17,152,346	5,335,624·69	2,502·20	4,754 51	7,004 51
8,238,775	9,733,150	8,193,125	9,733,150	1,001,181·86	.....	.....	1,000 00
2,207,075	.....	2,190,875	.....	121,645·47	5·61	10 66	260 66
85,029,333	26,885,496	84,679,647	26,885,496	6,458,452 02	2,507·81	4,765 17	8,265 17

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued*—SPIRITS.

No. 3—STATEMENT showing the transactions in the Distilleries in the

Divisions.	In Process, including Deficiencies Brought Forward.	Manufactured, including Surpluses.	Returned to Distillery for Redistillation.	
			Duty Paid.	In Bond.
	Galls.	Galls.	Galls.	Galls.
Belleville, Ont	10,147·46	595,262·22	.....	6,570·07
Guelph "	21,626·76	357,523·29	.....	17·42
Hamilton "	7,258·25	194,617·83	.....	44,534·02
Perth "	1,245·69	17,204·99	.....	.....
Prescott "	15,432·17	348,355·26	373·82	205·11
Toronto "	109,061·80	2,340,605·03	82·51	270,343·88
Windsor "	44,616·96	1,572,056·07	.....	315,332·82
Totals	239,389·09	5,335,624·69	456·33	637,003·32
Joliette, Que.	16,594·54	306,005·66	.....	.....
Montreal "	36,381·59	567,744·17	.....	.....
Quebec "	113·44	174·21	.....	.....
St. Hyacinthe "	8,586·37	127,257·82	.....	2,001·85
Totals	61,675·94	1,001,181·86	.....	2,001·85
Vancouver, B.C.	25,294·76	121,645·47	.....	103·71
Grand Totals	326,359·79	6,458,452·02	456·33	639,108·88

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

Dominion of Canada, during the Fiscal Year ended March 31, 1913.

Received from Other Sources, Duty Paid.	Totals.	Warehoused.	Fusel Oil Written off.	Deficiencies on Which Duty was Collected.	In Process, including Deficiencies, Carried forward.	Totals.
Galls.	Galls.	Galls.	Galls.	Galls.	Galls.	Galls.
1,254·28	553,234·03	490,055·65	.....	....	63,178·38	553,234·03
1,357·96	380,525·43	339,079·11	1,692·16	462·63	39,291 53	380,525·43
925·23	247,335·33	230,273·89	121·75	1,161·86	15,777·83	247,335·33
.....	18,450·68	17,272·51	.....	16·72	1,161·42	18,450·68
767·60	365,133·96	354,517·04	651·52	.....	9,965·40	365,133·96
2,298·81	2,722,392·03	2,578,101·90	3,713·76	860·99	139,715·38	2,722,392 03
859·29	1,932,865·14	1,845,991·16	.....	.....	86,873·98	1,932,865 14
7,463·17	6,219,936·60	5,855,291·29	6,179 19	2,502 20	355,963·92	6,219,936·60
.....	322,600·20	318,466·34	.....	.....	4,133·86	322,600·20
89·56	604,215·32	566,585·90	6,265·64	.....	31,363 78	604,215·32
.....	287·65	174·21	113·44	.....	.....	287·65
973·83	138,819·87	116,812·54	80·73	.....	21,926·60	138,819·87
1,063·39	1,065,923·04	1,002,038·99	6,459·81	.....	57,424·24	1,065,923·04
1,639·69	148,683·63	136,272·09	82·19	5·61	12,323·74	148,683·63
10,166·25	7,434,543·27	6,993,602·37	12,721·19	2,507·81	425,711·90	7,434,543·27

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued*—SPIRITS.

DR. No. 4.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913.

Divisions.	Remaining in Warehouse from Last Year.	Warehoused.	Imported.	Received from other Divisions.		Totals.
				Removed during Year.	In Transit Last Year.	
	Gallons	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Belleville, Ont.	1,193,333·13	490,055·65	.....	25,500·39	238·62	1,709,127·79
Brantford "	4,794·02	.....	.....	33,781·89	222·58	38,798·49
Guelph "	1,719,150·52	339,079·11	.....	39,579·87	.....	2,097,809·50
Hamilton "	751,184·51	230,273·89	.....	138,042·88	1,399·27	1,120,900·55
Kingston "	3,923·10	.....	.....	47,691·85	4,174·59	55,789·54
London "	4,146·31	.....	.....	46,597·73	368·66	51,112·70
Ottawa "	29,997·73	.....	.....	184,400·49	1,840·34	216,238·56
" Government Warehouse, Ont.	1,730·19	.....	.....	210,621·40	5,502·75	217,854·34
" Department Laboratory "	.....	.....	.....	37·40	.....	37·40
Perth, Ont.	79,259·63	17,272·54	.....	99,804·82	2,756·13	199,093·12
Peterborough "	496·36	.....	.....	4,975·73	.....	5,472·09
Port Arthur "	15,458·63	.....	.....	71,596·32	2,921·31	89,976·26
Prescott "	823,494·69	354,517·04	.....	1,440·30	18·44	1,179,470·47
St. Catharines "	1,254·12	.....	.....	7,673·81	.....	8,927·93
Stratford "	2,232·78	.....	.....	13,946·84	.....	16,179·62
Toronto "	4,890,151·53	2,578,101·90	.....	569,915·94	3,368·87	8,041,538·24
Windsor "	7,508,834·96	1,845,991·16	.....	23,653·00	97·81	9,378,576·93
Totals	17,029,442·21	5,855,291·29	.....	1,519,260·66	22,909·37	24,426,903·53
Joliette, Que.	741,965·79	*87·93 318,466·34	.....	45,072·88	192·15	1,105,785·09
Montreal "	1,157,434·15	566,585·90	454·50	927,087·07	28,839·80	2,680,001·42
Quebec "	699,020·02	174·21	.....	229,959·52	684·45	929,838·20
St. Hyacinthe "	311,733·38	116,812·54	.....	27,076·05	376·04	455,998·01
Sherbrooke "	4,188·43	.....	.....	108,747·10	326·40	113,261·93
Three Rivers "	4,504·43	.....	.....	36,795·50	2,526·45	43,826·38
Totals	2,918,846·20	1,002,126·92	54·50	1,374,738·12	32,945·29	5,328,711·03
St. John, N.B.	19,075·02	.....	.....	116,804·64	1,640·75	137,520·41

Halifax, N.S.	5,089 50			21,457·03	1,809 82	29,256·35
Pictou "	229 00			3,513·02	306·19	4,048 21
Totals	6,218·50			24,970·05	2,116·01	33,304·56
Charlottetown, P.E.I.				*68 24		68·24
Winnipeg, Man.	91,676·53			607,011·01	37,811·40	736,498·94
Moosejaw, Sask.	29,050 32			127,852·51	8,456·49	165,359·32
Calgary, Alta.	55,057 64			227,290·42	15,749·71	298,106·77
Vancouver, B.C.	353,578 74	136,272 09		158,530·89	11,794 83	660,176·55
Victoria "	19,299·90		59·96	89,989 41	2,981·65	112,330·92
Totals	372,878·64	136,272·09	59·96	248,520·30	14,776·48	772,507·47
Dawson, Y.T.	2,071·11			704·92		2,776·03
Sundries	8,612·54					8,612·54
Grand Totals	20,532,928·71	6,993,690·30	†54·50 59·96	4,247,229·87	136,405·50	31,910,368·84

* Surplus in bottling room. † Seizure.

APPENDIX A—*Continued*—SPIRITS.

No 4.—Warehouse Return for the Fiscal Year ended March 31, 1913. Cr.

Divisions.	Entered for Consumption.		Removed to Other Divisions.		Taken for Redistillation.	Free.		Exported.	Used in Bonded Factories.	Remaining in Warehouse.	Totals.
	Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.		Legal Allowance.	Other.				
	Gallons.	$ cts.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Belleville, Ont.	57,830·80	109,877 61	325,632·88	17,737·56	6,570·07	23,481·41	1,956·14	1,520·42	8,275·09	1,266,143·42	1,709,127·79
Brantford "	24,816·80	47,159 84	.....	.....	.....	.....	.....	.....	7,675·29	6,306·40	38,798·49
Guelph "	186,192·70	353,773 71	110,719·31	11,217·69	17·42	46,583·76	1,229·85	31,685·31	.....	1,710,163·43	2,097,809·50
Hamilton "	180,142·11	341,783 81	83,709·61	10,519·60	44,534·02	20,880·12	1,143·87	3,074·24	18,055·30	758,841·68	1,120,900·55
Kingston "	38,001·91	72,208 88	.....	.....	.....	.....	.....	.....	11,916·29	5,871·34	55,789·54
London "	45,480·16	86,416 10	.....	.....	.....	.....	.....	8·33	.....	5,624·21	51,112·70
Ottawa "	181,635·85	345,522 11	.....	.....	.....	.....	381·60	3·04	5,728·50	28,489 57	216,238·56
" Govt. W.H. Ont	.....	.....	.....	.....	.....	.....	.....	.....	212,007·21	5,847·13	217,854·34
" Dept. Lab'y. "	.....	.....	.....	.....	.....	.....	37·40	.....	.....	.....	37·40
Perth, Ont.	108,322·44	205,782 51	3,957·72	.....	.....	910 45	.....	1 67	.....	85,900·84	199,093·12
Peterborough "	5,037·99	9,577 88	.....	.....	.....	.....	.....	.....	.....	434·10	5,472·09
Port Arthur "	75,105·59	142,765 22	.....	.....	.....	.....	.....	.....	.....	14,870·67	89,976·26
Prescott "	64,799·23	123,124 69	245,669·80	7,320·42	205·11	7,744·78	1,099·39	1,266·90	.....	851,364·84	1,179,470·47
St. Catharines "	8,462·00	16,078 29	.....	.....	.....	.....	.....	.....	.....	465·93	8,927·93
Stratford "	14,801·07	28,130 70	.....	.....	.....	.....	.....	.....	.....	1,378·55	16,179·62
Toronto "	675,780·88	1,269,803 58	1,585,473·22	60,240·19	270,343·88	55,607·82	3,730·98	6,698·32	173,165·49	5,210,497·46	8,041,538·24
Windsor "	268,976·65	503,114 18	708,707·75	25,593·96	315,332·82	174,059·35	1,867·95	287,873·10	21,567·32	7,574,598·03	9,378,576·93
Totals	1,935,386·18	3,655,119 11	3,063,870·32	132,629·42	637,003·32	329,267·69	11,427·18	332,131·33	‡212,007·21 246,383·28	17,526,797·60	24,426,903·53
Joliette, Que.	44,741·31	85,232 86	314,602·94	5,727·45	.....	3,052·93	.....	.....	.....	737,660·46	1,105,785·09
Montreal "	1,181,992·34	2,232,938 16	350,263·62	4,209 54	.....	3,013·79	176·07	33·78	49,185·46	1,091,126·82	2,680,001·42
Quebec "	239,773·67	455,956 74	303,101·34	8,776·00	.....	7,653·33	3,541·51	.....	14,646·89	352,345.46	929,838·20
St. Hyacinthe "	65,098·97	123,811 48	144,215·94	1,375·05	2,001·85	3,503·19	814·86	57·31	7,902·41	231,028·43	455,998·01
Sherbrooke "	65,018·06	123,572 48	236·77	.....	.....	.....	.....	.....	40,012·86	7,994·24	113,261·93
Three Rivers "	40,420·80	76,872 38	.....	.....	.....	.....	.....	.....	.....	3,405·58	43,826·38
Totals	1,637,045·15	3,098,384 10	1,112,420·61	20,088·04	2,001 85	17.223·24	4,532·44	91·09	111,747·62	2,423,560·99	5,328,711·03

St. John, N.B.	93,710·12	178,173 57	63·50	22·45	.....	.....	.....	.....	17,754·83	25,969·51	137,520·41
Halifax, N.S.	25,514·33	48,514 80	68·24	.....	.....	.....	.....	119 42	.....	3,554·36	29,256·35
Pictou "	3,427·68	6,513 27	.....	.....	.....	.....	.....	.....	.....	620·53	4,048·21
Totals	28,942·01	55,028 07	68·24	.....	.....	.....	.....	119 42	.....	4,174·89	33,304·56
Charlottetown, P.E.I.	68·24	129 65	.....	.....	.....	.....	.....	.....	.....	.....	68·24
Winnipeg, Man.	582,364 28	1,106,178 09	30,118·73	1,070·03	.....	.....	.....	1·38	57,327·33	65,617 19	736,498·94
Moosejaw, Sask.	133,354·25	253,579 28	.....	.....	.....	.....	.....	.....	.....	32,005·07	165,359·32
Calgary, Alta.	246,855·33	469,063 08	1,654·91	.....	.....	.....	276·08	.....	.....	49,320·45	298,106·77
Vancouver, B.C.	248,642·11	472,440 45	35,606·47	298·29	103.71	4,988·86	1,582·58	216·14	7,613·53	361,124·86	600,176·55
Victoria "	91,803·18	174,426 43	3,127·09	217·89	.....	.....	.....	1,242·39	.....	15,640·37	112,330 92
Totals	340,445·29	646,866 88	39,033·56	516·18	103.71	4,988·86	1,582·58	1,458·53	7,613·53	376,765·23	772,507·47
Dawson, Y.T.	1,765·85	3,355 12	.....	.....	.....	.....	.....	.....	.....	1,010·18	2,776·03
Sundries	.....	.....	.....	.....	.....	.....	.....	.....	.....	8,612·54	8,612·54
Grand Totals	4,999,936·70	9,465,876·95	4,247,229·87	154,326·12	639,108·88	351,479·79	17,818·28	333,801·75	‡212,007 21 440,826·59	20,513,833·65	31,910,368·84

‡ Used in the manufacture of Methylated Spirits at the Government Warehouse, Ottawa.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

DR. No. 5.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Remaining in Warehouse from last Year.	Warehoused.	Imported.	Received from other Divisions.		Totals.
				Removed during Year.	In Transit last Year.	
1912.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	18,021,075·05	*285·09 4,289,176·50	....	‡143·82 1,356,425·84	29,433·86	23,696,540·16
Quebec	2,892,299·08	987,971·92 †1,000·00 *283·07	27,597·40	1,350,402·46	25,300 23	5,284,854·16
New Brunswick	25,314·83	....	....	103,742·63	1,776·06	130,833·52
Nova Scotia	6,171·88	....	....	26,613·73	2,222·60	35,008·21
Manitoba	70,780·68	33,751·76	....	583,786·87	13,401·36	701,720·67
Saskatchewan	20,876·59	....	....	105,513·31	700 97	127,090 87
Alberta	40,107·43	....	....	208,492·23	11,470·34	260,070·00
British Columbia	378,508·87	101,498·20	84·88	247,988·36	12,075·42	740.155·73
Yukon Territory	797·65	....	....	4,196·00	....	4,993·65
Sundries	8,612·54	....	....	....	....	8,612·54
Totals	21,464,544·60	5,412,398·38 †1,000·00 568·16	27,682·28	‡143·82 3,987,161·43	96,380·84	30,989,879·51

*Surplus in warehouse. †Rewarehoused. ‡Warehoused twice.

1913.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	17,029,442·21	5,855,291·29		1,519,260·66	22,909·37	24,426,903·53
Quebec	2,918,846·20	1,002,038·99 *87·93	†54·50	1,374,738·12	32,945·29	5,328,711·03
New Brunswick	19,075·02			116,804·64	1,640·75	137,520·41
Nova Scotia	6,218·50			24,970·05	2,116·01	33,304·56
Prince Edward Island				68·24		68·24
Manitoba	91,676·53			607,011·01	37,811·40	736,498·94
Saskatchewan	29,050·32			127,852·51	8,456·49	165,359·32
Alberta	55,057·64			227,299·42	15,749·71	298,106·77
British Columbia	372,878·64	136,272·09	59·96	248,520·30	14,776·48	772,507·47
Yukon Territory	2,071·11			704·92		2,776·03
Sundries	8,612·54					8,612·54
Totals	20,532,928·71	6,993,602·37 *87·93	†54·50 *59·96	4,247,229·87	136,405·50	31,910,368·84

*Surplus in bottling room. †Seizure.

APPENDIX A—*Continued*—SPIRITS.

No. 5.—Comparative Statement of Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913—*Concluded.* Cr.

Provinces.	Entered for Consumption.		Removed to Other Divisions.		Taken for Redistillation.	Free.		Exported.	Used in Bonded Factories.	Remaining in Warehouse.	Totals.
	Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.		Legal Allowance.	Other.				
1912.	Gallons.	$ cts.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	1,822,449·78	3,444,133 09	3,167,125·62	104,358·92	602,517·08	289,076·76	7,946·09	297,275·33	*168,304·23 208,044·14	17,029,442·21	23,696,540·16
Quebec	1,473,149·11	2,795,028 66	741,534·78	30,496·85	2,300·80	10,797·35	1,784·79	211·92	†34,679·37 71,052·99	2,918,846·20	5,284,854·16
New Brunswick	95,310·34	181,196 36		22·85					16,425·31	19,075·02	130,833·52
Nova Scotia	28,599·92	54,383 08	36·29					153 50		6,218·50	35,008·21
Manitoba	526,460·96	1,000,080 00	35,631·00	1,526·88				6·90	46,418·40	91,676·53	701,720·67
Saskatchewan	98,033·60	186,406 76					6·95			29,050·32	127,090·87
Alberta	203,347·61	386,404 88	1,664·75							55,057·64	260,070·00
British Columbia	312,108·88	593,026 85	41,168·99		19·46	5,507·03	1,577·92	1,121·67	5,773·14	372,878·64	740,155·73
Yukon Territory	2,922·54	5,552 84								2,071·11	4,993·65
Sundries										8,612·54	8,612·54
Totals	4,562,382·74	8,646,212 52	3,987,161·43	136,405·50	604,837·34	305,381·14	11,315·75	298,769·32	*168,304·23 †34,679·37 347,713·98	20,532,928·71	30,989,879·51

1913.	Gallons.	Duty.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.	Gallons.
Ontario	1,935,386·18	3,655,119 11	3,063,870·32	132,629·42	637,003 32	329,267 69	11,427 18	332,131 33	*212,007·21 246,383·28	17,526,797·60	24,426,903·53
Quebec	1,637,045·15	3,098,384 10	1,112,420·61	20,088 04	2,001 85	17,223 24	4,532 44	91 09	111,747 62	2,423,560·99	5,328,711·03
New Brunswick	93,710·12	178,173 57	63·50	22·45					17,754·83	25,969·51	137,520·41
Nova Scotia	28,942·01	55,028 07	68·24					119 42		4,174·89	33,304·56
Prince Edward Island	68·24	129 65									68·24
Manitoba	582,364·28	1,106,178 09	30,118·73	1,070 03				1 38	57,327·33	65,617·19	736,498·94
Saskatchewan	133,354·25	253,579 28								32,005·07	165,359·32
Alberta	246,855·33	469,063 08	1,651·91				276 08			49,320·45	298,106·77
British Columbia	340,445·29	646,866 88	39,033·56	516·18	103 71	4,988 86	1,582 58	1,458 53	7,613·53	376,765·23	772,507·47
Yukon Territory	1,765·85	3,355 12								1,010·18	2,776·03
Sundries										8,612·54	8,612·54
Totals	4,999,936·70	9,465,876 95	4,247,229·87	154,326·12	639,108 88	351,479 79	17,818 28	333,801 75	*212,007·21 440,826·59	20,513,833.65	31,910,368·84

*Used in the manufacture of Methylated Spirits at the Government Warehouse, Ottawa.
† " Crude Fulminate.

	1912.	1913.
Total duty collected ex-manufactory and ex-warehouse	$8,663,915 82	$9,470,642 12
License fees	3,750 00	3,500 00
	$8,667,665 82	$9,474,142 12

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—MALT.

No 6.—RETURN of Manufactures for the Fiscal Year ended March 31, 1913.

Divisions.	Licenses.		Grain Steeped.	Grain used in Malt Manufactured.	Malt.			Total Duty Collected ex-manufactory, including License Fees.
	No.	Fees.			Manufactured.	Paid Duty.	Warehoused.	
		$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	$ cts.
Belleville, Ont..	1	50	149,812	149,812	115,011	.....	115,011	50 00
Brantford " ..	1	50	642,598	643,551	509,476	.....	509,476	50 00
Guelph " ..	5	550	7,298,607	7,155,769	5,674,552	.....	5,674,552	550 00
Hamilton " ..	2	350	5,147,310	5,020,870	3,939,870	.....	3,939,870	350 00
Kingston " ..	1	50	308,844	313,455	239,212	.....	239,212	50 00
London " ..	2	400	4,998,350	5,008,150	3,901,590	.....	3,901,590	490 00
Owen Sound " ..	1	200	5,628,500	5,525,000	4,418,458	.....	4,418,458	200 00
Perth " ..	2	100	341,370	336,595	263,335	1,277	262,058	119 16
Peterborough, O.	1	50	453,840	453,840	352,764	.....	352,764	50 00
Prescott "	2	150	352,366	348,787	269,836	.....	269,836	150 00
St. Catharines "	1	50	.....	18,150	14,650	.....	14,650	50 00
Stratford "	1	200	6,128,295	6,194,245	5,002,420	.....	5,002,420	200 00
Toronto "	7	950	11,026,646	11,025,279	8,534,854	.....	8,534,854	950 00
Windsor "	1	200	5,999,430	5,771,230	4,566,770	.....	4,566,770	200 00
Totals.....	28	3,350	48,475,968	47,964,733	37,802,798	1,277	37,801,521	3,369 16
Montreal, Que..	4	800	48,660,945	48,628,345	38,202,980	3,156	38,199,824	847 34
Quebec " ..	1	150	1,046,415	1,047,769	832,151	.....	832,151	150 00
Totals	5	950	49,707,360	49,676,114	39,035,131	3,156	39,031,975	997 34
Winnipeg, Man.	3	500	42,642,697	42,996,897	34,506,510	.....	34,506,510	500 00
Calgary, Alta...	3	500	9,057,435	8,364,225	6,723,710	.....	6,723,710	500 00
Victoria, B.C...	1	100	708,783	760,895	605,012	.....	605,012	100 00
Grand Totals.	40	5,400	150,592,243	149,762,864	118,673,161	4,433	118,668,728	5,466 50

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

APPENDIX A.—*Continued.*—MALT.

No. 7.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Grain Steeped.	Grain used in Malt Manufactured.	Malt.			Total Duty Collected ex-manufactory, including License Fees.
	No.	Fees.			Manufactured.	Paid Duty.	Warehoused.	
1912.		$	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	$ cts.
Ontario	31	3,900	54,602,159	54,549,890	43,070,327	.....	43,070,327	3,900 00
Quebec	5	950	52,140,304	52,058,372	41,209,501	347,576	40,861,925	6,163 60
Manitoba	3	500	34,940,690	34,401,050	27,658,585	.....	27,658,585	500 00
Alberta	2	300	3,620,440	3,626,155	2,941,746	.....	2,941,746	300 00
British Columbia	1	100	1,140,212	1,134,906	913,167	.....	913,167	100 00
Totals	42	5,750	146,443,805	145,770,373	115,793,326	347,576	115,445,750	10,963 60
1913.								
Ontario	28	3,350	48,475,968	47,964,733	37,802,798	1,277	37,801,521	3,369 16
Quebec	5	950	49,707,360	49,676,114	39,035,131	3,156	39,031,975	997 34
Manitoba	3	500	42,642,697	42,996,897	34,506,510	.....	34,506,510	500 00
Alberta	3	500	9,057,435	8,364,225	6,723,710	.....	6,723,710	500 00
British Columbia	1	100	708,783	760,895	605,012	.....	605,012	100 00
Totals	40	5,400	150,592,243	149,762,864	118,673,161	1,433	118,668,728	5,466 50

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.—*Continued*—MALT.

DR. No. 8—WAREHOUSE RETURN for

Remaining in Warehouse from last year.	Warehoused.	Increases.	Received from other Divisions.		Imported.	Totals.	Divisions.
			Removed during year.	In Transit last year.			
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	
127,358	115,011	2,201	532,000	40,000	150	816,720	..Belleville, Ont.....
112,808	509,476	4,928	126,190	.....	2,000	755,402	..Brantford " ....
2,689,284	5,674,552	52,942	1,960,600	.....	836,296	11,213,674	..Guelph " ....
1,464,146	3,939,870	37,558	1,320,000	.....	189,174	6,950,748	..Hamilton " ....
167,372	239,212	5,780	160,000	40,000	.....	612,364	..Kingston " ....
2,291,773	3,901,590	83,369	454,000	.....	1,650	6,732,382	..London " ....
85,100	.....	.....	1,202,208	50,000	.....	1,337,308	..Ottawa " ....
1,941,264	4,418,458	37,440	442,220	7,200	.....	6,846,582	..Owen Sound " ....
35,681	262,058	826	2,084,800	130,000	2,040	2,515,405	..Perth " ....
92,845	352,764	8,380	424,800	.....	.....	878,789	..Peterborough " ....
77,022	.....	.....	1,600,000	.....	5,876	1,682,898	..Port Arthur " ....
50,390	269,836	3,696	2,736,000	40,000	.....	3,099,922	..Prescott " ....
201,620	14,650	6,870	1,484,276	.....	.....	1,707,416	.St. Catharines " ....
2,724,352	5,002,420	267,082	148,800	.....	.....	8,142,654	..Stratford " ....
7,143,740	8,534,854	107,829	12,259,850	228,000	143,062	28,417,335	..Toronto " ....
2,359,576	4,566,770	49,760	410,000	.....	126,800	7,512,906	..Windsor " ....
21,564,331	37,801,521	668,661	27,345,744	535,200	1,307,048	89,222,505	.....Totals.....
60,980	.....	.....	1,965,000	40,000	.....	2,065,980	..Joliette, Que. ...
8,276,604	38,199,824	222,023	1,298,270	.....	455,780	48,452,501	..Montreal " ....
.....	832,151	.....	1,440,000	.....	46,080	2,318,231	..Quebec " ....
.....	.....	.....	142,000	.....	.....	142,000	..St. Hyacinthe " ....
52,900	.....	.....	800,000	50,000	.....	902,900	..Sherbrooke " ....
.....	.....	.....	25,200	.....	.....	25,200	..Three Rivers " ....
8,390,484	39,031,975	222,023	5,670,470	90,000	501,860	53,906,812	.....Totals.....
.....	.....	.....	1,360,000	.....	.....	1,360,000	..St. John, N.B.....
24,700	.....	.....	2,974,000	40,000	45,100	3,083,800	..Halifax, N.S.....
4,461,968	34,506,510	72,348	1,080,000	.....	*1,440,407	41,561,233	. Winnipeg, Man.....
3,100	.....	.....	2,560,000	120,000	41,704	2,724,804	..Moose Jaw, Sask....
596,537	6,723,710	20,146	4,000,000	40,000	383,980	11,764,373	..Calgary, Alta.....
160,974	.....	.....	6,833,281	450,000	948,493	8,392,748	..Vancouver, B.C.....
50,833	605,012	582	2,990,000	80,000	297,870	4,024,297	.Victoria " .....
211,807	605,012	582	9,823,281	530,000	1,246,363	12,417,045	... Totals.....
26,773	.....	475	.....	.....	34,560	61,808	..Dawson, Y.T.....
35,279,700	118,668,728	984,235	54,813,495	1,355,200	*5,001,022	216,102,380	.....Grand Totals....

* 32,000 lbs. Re-imported.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

the Fiscal Year ended March 31, 1913. CR.

Entered for Consumption.		Removed to other Divisions.		Exported.	Free.	Written off.	Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.					
Lbs.	$ cts.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
715,209	10,728 13						101,511	816,720
636,950	9,574 25						118,452	755,402
6,528,308	97,924 62	1,446,634	89,934				3,148,798	11,213,674
4,736,148	71,042 24	632,900	54,000				1,527,700	6,950,748
427,552	6,413 28						184,812	612,364
4,783,413	71,751 79						1,948,969	6,732,382
1,290,540	19,358 10						46,768	1,337,308
550,158	8,252 37	4,433,934	80,000	40,000			1,742,490	6,846,582
2,132,040	31,980 60				321,716	6,252	55,397	2,515,405
728,966	10,934 49						149,823	878,789
1,661,684	24,936 02						21,214	1,682,898
3,050,677	45,760 17			3,600			45,645	3,099,922
1,633,686	24,505 29						73,730	1,707,416
668,810	10,032 15	6,118,250					1,355,594	8,142,654
22,808,487	342,397 32						5,608,848	28,417,335
3,507,875	52,618 13	247,000			572,184		3,185,847	7,512,906
55,860,503	838,208 95	12,878,718	223,934	43,600	893,900	6,252	19,315,598	89,222,505
					2,011,525		54,455	2,065,980
25,734,482	386,031 24	16,813,000	350,000	108,000			5,447,019	48,452,501
2,318,231	34,773 41							2,318,231
142,000	2,130 00							142,000
902,900	13,543 50							902,900
25,200	378 00							25,200
29,122,813	436,856 15	16,813,000	350,000	108,000	2,011,525		5,501,474	53,906,812
1,320,000	19,800 00	40,000						1,360,000
2,974,104	44,611 56	48,496		7,200			54,000	3,083,800
11,619,635	174,294 54	24,380,000	772,000	40,000			4,749,598	41,561,233
2,689,804	40,347 06						35,000	2,724,804
8,543,920	128,158 88	260,000	280,000				2,680,453	11,764,373
8,108,625	121,629 35						284,123	8,392,748
3,619,896	54,298 46	393,281					11,120	4,024,297
11,728,521	175,927 81	393,281					295,243	12,417,045
56,874	853 12						4,934	61,808
123,916,174	1,859,058 07	54,813,495	1,625,934	198,800	2,905,425	6,252	32,636,300	216,102,380

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—MALT.

DR. No. 9.—COMPARATIVE STATEMENT of Warehouse Returns for the

Remaining in Warehouse from last year.	Warehoused.	Increases.	Received from other Divisions.		Imported.	Totals.	Provinces.
			Removed during year.	In Transit last year.			
Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	1912.
20,001,367	43,070,327	475,285	27,089,040	236,000	31,502	90,903,521	Ontario.
9,284,732	40,861,925	125,959	4,756,233	199,000	53,596	55,281,445	Quebec.
			1,280,000	40,000	3,024	1,323,024	New Brunswick.
111,438			2,746,000	40,000	20,080	2,917,518	Nova Scotia.
4,329,677	27,658,585	173,409	1,480,000		7,390	33,649,061	Manitoba.
			1,560,000	80,000		1,640,000	Saskatchewan.
1,323,205	2,941,746	33,023	2,120,000	100,000	60,920	6,578,894	Alberta.
255,580	913,167	299	9,594,280	334,311	383,750	11,481,387	British Columbia.
54,020		2,397			53,120	109,537	Yukon Territory.
35,360,019	115,445,750	810,372	50,625,553	1,029,311	613,382	203,884,387	Totals.
							1913.
21,564,331	37,801,521	668,661	27,345,744	535,200	1,307,048	89,222,505	Ontario.
8,390,484	39,031,975	222,023	5,670,470	90,000	501,860	53,906,812	Quebec.
			1,360,000			1,360,000	New Brunswick.
24,700			2,974,000	40,000	45,100	3,083,800	Nova Scotia.
4,461,968	34,506,510	72,348	1,080,000		*1,440,407	41,561,233	Manitoba.
3,100			2,560,000	120,000	41,704	2,724,804	Saskatchewan.
596,537	6,723,710	20,146	4,000,000	40,000	383,980	11,764,373	Alberta.
211,807	605.012	582	9,823,281	530,000	1,246,363	12,417,045	British Columbia.
26,773		475			34,560	61,808	Yukon Territory.
35,279,700	118,668,728	984.235	54,813,495	1,355,200	*5,001,022	216,102,380	Totals.

* 32,000 lbs re-imported.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

Fiscal Years ended March 31, 1912 and 1913. CR.

Entered for Consumption.		Removed to other Divisions.		Exported.	Free.	Written Off.	Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in Divisions to which Removed.	In Transit.					
Lbs.	$ cts.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
53,760,863	806,736 32	14,629,640	207,200	40,000	697,339	4,148	21,564,331	90,903,521
27,408,061	411,120 85	17,225,400	228,000	180,000	1,849,500	.....	8,390,484	55,281,445
1,323,024	19,875 60	.....	.....	.....	.....	.....	.....	1,323,024
2,882,018	43,230 27	.....	.....	10,800	.....	.....	24,700	2,917,518
9,777,660	146,664 91	18,364,233	920,000	64,000	58,000	3,200	4,461,968	33,649,061
1,636,900	24,553 50	.....	.....	.....	.....	.....	3,100	1,640,000
5,982,357	89,735 45	.....	.....	.....	.....	.....	596,537	6,578,894
10,828,300	162,424 68	406,280	.....	.....	.....	35,000	211,807	11,481,387
82,764	1,241 44	.....	.....	.....	.....	.....	26,773	109,537
113,681,947	1,705,583 02	50,625,553	1,355,200	294,800	2,604,839	42,348	35,279,700	203,884,387
55,860,503	838,208 95	12,878,718	223,934	43,600	893,900	6,252	19,315,598	89,222,505
29,122,813	436,856 15	16,813,000	350,000	108,000	2,011,525	.....	5,501,474	53,906,812
1,320,000	19,800 00	40,000	.....	.....	.....	.....	.....	1,360,000
2,974,104	44,611 56	48,496	.....	7,200	.....	.....	54,000	3,083,800
11,619,635	174,294 54	24,380,000	772,000	40,000	.....	.....	4,749,598	41,561,233
2,689,804	40,347 06	.....	.....	.....	.....	.....	35,000	2,724,804
8,543,920	128,158 88	260,000	280,000	.....	.....	.....	2,680,453	11,764,373
11,728,521	175,927 81	393,281	.....	.....	.....	.....	295,243	12,417,045
56,874	853 12	.....	.....	.....	.....	.....	4,934	61,808
123,916,174	1,859,058 07	54,813,495	1,625,934	198,800	2,905,425	6,252	32,636,306	216,102,380

	1912.	1913.
Total duty collected ex-manufactory and ex-warehouse	$1,710,796 62	$1,859,124 57
License fees	5,750 00	5,400 00
	$1,716,546 62	$1,864,524 57

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—MALT LIQUOR.

No. 10.—RETURN of Manufactures for the Fiscal Year ended March 31, 1913.

Divisions.	Licenses. No.	Licenses. Fees.	Malt used.	Other commodities used.	Malt Liquor manufactured.	Malt Liquor Exported.	Total Duty Collected, ex-manufactory including License Fees.
		$ cts.	Lbs.	Lbs.	Galls.	Galls.	$ cts.
Belleville, Ont.	1	50 00	169,630		80,979		50 00
Brantford "	2	100 00	633,940		263,645		100 00
Guelph "	6	300 00	6,200,292		3,179,960		300 00
Hamilton "	2	100 00	4,583,791		1,919,750		100 00
Kingston "	2	100 00	429,854		153,100		100 00
London "	4	200 00	4,630,523		1,878,812	5,265	200 00
Ottawa "	2	100 00	1,775,100		886,350		100 00
Owen Sound "	5	250 00	505,114		219,270		250 00
Perth "	2	100 00	2,163,425		1,085,922		100 00
Peterborough "	2	100 00	724,000		268,068		100 00
Port Arthur "	3	150 00	1,634,779		743,650		150 00
Prescott "	3	150 00	2,786,148		1,246,886		150 00
St. Catharines "	2	100 00	1,628,440		712,750		100 00
Stratford "	3	150 00	469,104		231,900		150 00
Toronto "	13	650 00	20,900,111		9,128,643		650 00
Windsor "	2	100 00	2,214,460		1,113,096		100 00
Totals	54	2,700 00	51,448,711		23,112,781	5,265	2,700 00
Montreal, Que.	8	400 00	23,095,830	99,640	10,853,636		10,502 30
Quebec "	3	150 00	4,128,136		1,717,725		150 00
Sherbrooke "	1	50 00	679,500		521,285		50 00
Three Rivers "	1	50 00	25,200		11,925		50 00
Totals	13	650 00	27,928,666	99,640	13,104,571		10,752 30
St. John, N.B.	2	100 00	1,313,070		521,348		100 00
Halifax, N.S.	3	150 00	3,022,181		979,735		150 00
Winnipeg, Man.	6	300 00	10,250,888	2,200	4,403,240		556 10
Moose Jaw, Sask.	4	200 00	2,667,381	89,650	1,316,552		11,939 00
Calgary, Alta.	7	325 00	8,122,642	285,672	3,787,805		42,073 30
Vancouver, B.C.	20	1,000 00	7,954,498	659,400	3,581,937		74,464 80
Victoria "	7	350 00	3,729,939	55,768	1,484,777		6,651 80
Totals	27	1,350 00	11,684,437	715,168	5,066,714		81,116 60
Dawson, Y.T.	1	50 00	56,874		21,654		50 00
Grand Totals	117	5,825 00	116,494,850	1,192,330	52,314,400	5,265	149,437 30

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

APPENDIX A.—*Continued*—MALT LIQUOR.

No. 11.—Comparative Statement of Manufactures for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Malt used.	Other Commodities used.	Malt Liquor manufactured.	Malt Liquor exported.	Total Duty collected, ex-manufactory, including License Fees.
	No.	Fees.					
1912.		$ cts.	Lbs.	Lbs.	Galls.	Galls.	$ cts.
Ontario	53	2,650 00	50,147,939		22,900,301		2,650 00
Quebec	12	550 00	26,165,046	66,320	11,119,088	1,750	5,969 00
New Brunswick	2	100 00	1,286,570		505,205		100 00
Nova Scotia	3	150 00	2,847,468		933,917	310	150 00
Manitoba	6	300 00	8,980,489	2,350	4,108,884		484 50
Saskatchewan	4	200 00	1,671,856	49,650	849,193		6,206 00
Alberta	5	250 00	5,887,050	114,600	2,677,481		20,780 60
British Columbia	28	1,400 00	10,623,672	508,050	4,394,344		50,416 04
Yukon Territory	1	*	82,764		33,234		
Totals	114	5,600 00	107,692,854	740,970	47,518,647	2,060	86,756 14
1913.							
Ontario	54	2,700	51,448,711		23,112,781	5,265	2,700 00
Quebec	13	650	27,928,666	99,640	13,104,571		10,752 30
New Brunswick	2	100	1,313,070		521,348		100 00
Nova Scotia	3	150	3,022,181		979,735		150 00
Manitoba	6	300	10,250,888	2,200	4,403,240		556 10
Saskatchewan	4	200	2,667,381	89,650	1,316,552		11,939 00
Alberta	7	325	8,122,642	285,672	3,787,805		42,073 30
British Columbia	27	1,350	11,684,437	715,168	5,066,714		81,116 60
Yukon Territory	1	50	56,874		21,654		50 00
Totals	117	5,825	116,494,850	1,192,330	52,314,400	5,265	149,437 30

	1912.	1913.
	Galls.	Galls.
Exported	2,060	5,265

*License fee paid in 1910-11.

W. HIMSWORTH,
Deputy Minister.

Inland Revenue Department,
Ottawa, June 1, 1913.

APPENDIX A.—*Continued*—TOBACCO.

No. 12.—RETURN of Manufactures for

Divisions.	Licenses.		Total Weight of Raw Leaf Tobacco and other Materials actually used.	Tobacco. At 5c. per lb.		
	Number.	Fees.		Manufactured.	Paid Duty.	Warehoused.
		$ cts.	Lbs.	Lbs.	Lbs.	Lbs.
Hamilton, Ont.	1	50 00	1,275,650½	1,233,598	591,065½	642,532½
Toronto, "	4	175 00	180,615	193,314	47,069	116,245
Windsor, "	4	175 00	152,975	157,378	157,378	....
Totals	9	400 00	1,609,240½	1,584,290	795,512½	788,777½
Joliette, Que	9	400 00	120,013	124,489	124,489	.....
Montreal "	35	1,675 00	14,660,250	12,733,020½	4,995,744	7,737,276½
Quebec "	5	250 00	2,975,946	3,004,445½	2,982,316	22,129½
St. Hyacinthe "	3	150 00	5,924	6,085	6,085	....
Sherbrooke "	1	50 00	4,176,977	4,348,448½	4,335,930½	12,518
Three Rivers "	3	150 00	69,008	69,149	69,149	.....
Totals	56	2,675 00	22,008,118	20,285,637½	12,513,713½	7,771,924
Pictou, N.S	1	50 00	10,571	11,523	11,523	.....
Charlottetown, P.E.I.	4	175 00	202,060	221,418½	221,418½	.....
Winnipeg, Man.	1	50 00	17,152	....	.....	....
Vancouver, B.C.	1	50 00	2,846	3,000	3,000	.....
Grand Totals	72	3,400 00	23,849,987½	22,105,869	13,545,167½	8,560,701½

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

the Fiscal Year ended March 31, 1913.

Cigarettes. At 2.40 per M.			Cigarettes. At $7.00 per M.			Snuff. At 5c. per lb.		Total Duty Collected ex-manufactory, including License Fees.
Manufactured.	Paid Duty.	Warehoused.	Manufactured.	Paid Duty	Warehoused.	Manufactured.	Paid Duty	
No.	No.	No.	No.	No.	No.	Lbs.	Lbs.	$ cts.
39,187,200	39,187,200							123,652 56
197,300	197,300		1,100	1,100				3,009 67
								8,043 90
39,384,500	39,384,500		1,100	1,100				134,706 13
								6,621 45
930,114,807	902,648,157	27,466,650	2,407,100	2,377,100	30,000	610,238	610,238	2,464,969 39
1,811,100	947,150	863,950				49,754	49,754	154,126 76
								454 25
								216,846 50
								3,607 45
931,925,907	903,595,307	28,330,600	2,407,100	2,377,100	30,000	659,992	659,992	2,846,628 80
								626 15
								11,246 00
5,487,800	2,068,250	3,419,550						5,013 80
								200 00
976,798,207	945,048,057	31,750,150	2,408 200	2,378,200	30,000	659,992	659,992	2,998,420 88

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—TOBACCO.

No. 13.—Comparative Statement of Manufactures for

Provinces.	Licenses.		Total Weight of Raw Leaf Tobacco and other Materials actually used.	Tobacco At 5c. per lb.		
	Number.	Fees.		Manufactured.	Paid Duty.	Warehoused.
1912.		$ cts.	Lbs.	Lbs.	Lbs.	Lbs.
Ontario	7	350 00	1,791,711	1,720,900	918,394½	802,505½
Quebec	52	2,550 00	19,864,449¾	18,713,823⅗	11,750,350⅖	6,963,473
Nova Scotia	1	50 00	14,133	15,039	15,039	.....
Prince Edward Island	3	150 00	194,983	221,368½	221,368½	.....
Manitoba	1	50 00	14,590	.....	.....	.....
Totals	64	3,150 00	21,879,866¾	20,671,131 1/10	12,905,152⅗	7,765,978½
1913.						
Ontario	9	400 00	1,609,240½	1,584,290	795,512½	788,777½
Quebec	56	2,675 00	22,008,118	20,285,637½	12,513,713⅗	7,771,924
Nova Scotia	1	50 00	10,571	11,523	11,523	.....
Prince Edward Island	4	175 00	202,060	221,418½	221,418½	.....
Manitoba	1	50 00	17,152	.....	.....	.....
British Columbia	1	50 00	2,846	3,000	3,000	.....
Totals	72	3,400 00	23,849,987½	22,105,869	13,545,167½	8,560,701½

Inland Revenue Department,
Ottawa, June 1, 1913.

the Fiscal Years ended March 31, 1912 and 1913.

Cigarettes at $2.40 per M.			Cigarettes at $7 per M.			Snuff At 5c. per Lb.		Total Duty Collected ex-manufactory, including License Fees.
Manufactured.	Paid Duty.	Warehoused.	Manufactured.	Paid Duty.	Warehoused.	Manufactured.	Paid Duty.	
No.	No.	No.	No.	No.	No.	Lbs.	Lbs.	$ cts.
53,277,300	53,274,300	3,000						174,128 05
722,972,065	696,361,715	26,610,350	2,397,320	2,325,930	71,390	534,068	534,068	2,304,320 64
								801 95
								11,218 43
5,335,500	3,828,900	1,506,600						9,239 36
781,584,865	753,464,915	28,119,950	2,397,320	2,325,930	71,390	534,068	534,068	2,499,708 43
39,384,500	39,384,500		1,100	1,100				134,706 13
931,925,907	903,595,307	28,330,600	2,407,109	2,377,100	30,000	659,992	659,992	2,846,628 80
								626 15
								11,246 00
5,487,800	2,068,250	3,419,550						5,013 80
								200 00
976,798,207	945,048,057	31,750,150	2,408,200	2,378,200	30,000	659,992	659,992	2,998,420 88

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—TOBACCO. MANUFACTURED BEFORE JUNE 1, 1908.

DR. No. 14.—WAREHOUSE RETURN for the Fiscal year ended March 31, 1913. CR.

Balance in Warehouse from last year.	Totals.	Divisions.	Ships stores.	Remaining in Warehouse.	Totals.
Tobacco.	Tobacco.		Tobacco.	Tobacco.	Tobacco.
Lbs.	Lbs.		Lbs.	Lbs.	Lbs.
461	461	St. John, N.B.		461	461
4,179½	4,179½	Victoria, B.C.	140	4,039½	4,179½
19,719½	19,719½	Sundries		19,719½	19,719½
24,360	24,360	Totals	140	24,220	24,360

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—TOBACCO. MANUFACTURED BEFORE JUNE 1, 1908.

DR. No. 15.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal years ended March 31, 1912 and 1913. CR.

Remaining in Warehouse from last year.		Totals.		Provinces.	Entered for Consumption.		Ships' Stores.	Written off.	Remaining in Warehouse.	Totals.	
Tobacco.	Cigarettes.	Tobacco.	Cigarettes.		Tobacco at 25c. per lb.	Duty.	Tobacco.	Cigarettes.	Tobacco.	Tobacco.	Cigarettes.
Lbs.	No.	Lbs.	No.	1912.	Lbs.	$ cts.	Lbs.	No.	Lbs.	Lbs.	No.
.....	112,800	.....	112,800	Quebec	.....	.....	.....	112,800	.....	.....	112,800
461	.....	461	.....	New Brunswick	.....	.....	.....	.....	461	461	.....
4,347½	.....	4,347½	.....	British Columbia	168	42 00	.....	.....	4,179½	4,179½	.....
19,719½	.....	19,719½	.....	Sundries	.....	.....	.....	.....	19,719½	19,719½	.....
24,528	112,800	24,528	112,800	Totals	168	42 00	.....	112,800	24,360	24,360	112,800
				1913.							
461	.....	461	.....	New Brunswick	.....	.....	.....	.....	461	461	.....
4,179½	.....	4,179½	.....	British Columbia	.....	.....	140	.....	4,039½	4,179½	.....
19,719½	.....	19,719½	.....	Sundries	.....	.....	.....	.....	19,719½	19,719½	.....
24,360	.....	24,360	.....	Totals	.....	.....	140	.....	24,220	24,360	.....

INLAND REVENUE DEPARTMENT,

OTTAWA, June 1, 1913.

W. HIMSWORTH,

Deputy Minister.

APPENDIX A.—*Continued.*—TOBACCO. UNDER

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No. 16.—WAREHOUSE RETURN for the

Divisions.	Remaining in Warehouse from last Year.			Warehoused.			Received Tobacco.
	Tobacco.	Cigarettes	Over-weight Cigarettes	Tobacco.	Cigarettes.	Over-weight Cigarettes	Removed during year.
	Lbs.	No.	No.	Lbs.	No.	No.	Lbs.
Belleville, Ont.							2,080
Hamilton "	284,582			642,532½			
Ottawa "							
Owen Sound "							36,565
Perth "							21,855
Stratford "							35,540
Toronto "	23,934			146,245			
Totals	308,516			788,777½			96,040
Montreal, Que	331,889	3,727,700	9,600	7,737,276½	27,466,650	30,000	44
Quebec "	22,473	291,244		22,124½	863,950		
Sherbrooke "				12,518			3,260
Totals	354,362	4,018,944	9,600	7,771,924	28,330,600	30,000	3,304
St. John, N.B.							5,245
Halifax, N.S.	1,490						39,454
Winnipeg, Man.		1,046,350			3,419,550		
Vancouver, B.C.							40,788
Victoria "							223,927
Totals							264,715
Grand Totals	664,369	5,065,294	9,600	8,560,701½	31,750,150	30,000	408,758

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

AMENDED RATES OF DUTY, JUNE 1, 1908.

Fiscal Year ended March 31, 1913.

from other Divisions.			Totals.			Entered for Consumption.		
Tobacco.	Cigarettes.		Tobacco.	Cigarettes.	Over-weight Cigarettes	Tobacco. At 5 cents per lb.	Cigarettes. At $2.40 per M.	Over-weight Cigarettes At $7 per M.
In Transit last year.	Removed during year.	In transit. last year.						
Lbs.	No.	No.	Lbs.	No.	No.	Lbs.	No.	No.
			2,080			2,080		
			927,114½			665,447½		
	17,200	500		17,700				
1,640			38,205			38,205		
			21,855			21,855		
1,020			36,560			36,560		
			170,179			147,412		
2,660	17,200	500	1,195,993½	17,700		911,559½		
			8,069,200½	31,194,300	39,600	6,923,207½	26,866,700	39,600
			44,602½	1,155,794		342	806,344	
			15,778			14,569		
			8,129,581	32,349,544	39,600	6,938,119½	27,366,044	39,600
			5,245			5,245		
1,100			42,044			42,044		
				4,485,900			2,911,350	
4,840			45,628			42,988		
6,220			230,147			208,987		
11,060			275,775			251,955		
14,820	17,200	500	9,648,683½	36,533,144	39,600	8,149,942	30,277,444	39,600

W. HIMSWORTH.
Deputy Minister.

APPENDIX A.—*Continued.*—TOBACCO. UNDER

No. 16.—WAREHOUSE RETURN for the

Divisions.	Duty.	Removed to other Divisions.			Exported.	
		Tobacco.		Cigarettes.		
		Warehoused in Divisions to which removed.	In transit.	Warehoused in Divisions to which removed.	Tobacco.	Cigarettes
	$ cts.	Lbs.	Lbs.	No.	Lbs.	No.
Belleville, Ont.	104 00					
Hamilton "	33,272 38				1,103½	
Ottawa "						
Owen Sound "	1,910 25					
Perth "	1,092 75					
Stratford	1,828 00					
Toronto	7,370 60					
Totals	45,577 98				1,103½	
Montreal, Que.	410,060 89	387,598	6,115	17,200	3,284	27,000
Quebec "	2,072 45					
Sherbrooke "	729 45				50	
Totals	412,862 79	387,598	6,115	17,200	3,334	27,000
St. John, N.B.	262 25					
Halifax, N.S.	2,102 20					
Winnipeg, Man.	6,987 24					
Vancouver, B.C.	2,148 40					
Victoria "	10,449 35	21,160				
Totals	12,597 75	21,160				
Grand Totals.	480,390 21	408,758	6,115	17,200	4,437½	27,000

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

AMENDED RATES OF DUTY, JUNE 1, 1908.

Fiscal Year ended March 31, 1913—*Concluded.* CR.

Free and Wrltten off.	Taken for Re-working.		Remaining in Warehouse.		Totals.		
Cigarettes.	Tobacco.	Cigarettes	Tobacco.	Cigarettes.	Tobacco.	Cigarettes.	Over-weight cigarettes.
No.	Lbs.	No.	Lbs.	No.	Lbs.	No.	No.
					2,080		
			260,563½		927,114½		
17,700						17,700	
					38,205		
					21,855		
					36,560		
			22,767		170,179		
17,700			283,330½		1,195,993½	17,700	
	3,053½	38,000	745,942½	4,602,450	8,069,200½	31,191,350	39,600
	22,131		22,129½	298,800	44,602½	1,155,194	
	1,139				15,778		
	26,323½	38,000	768,072	4,901,250	8,129,581	32,349,544	39,600
					5,245		
					42,941		
				1,554,550		4,465,900	
			2,660		45,628		
					230,147		
			2,660		275,775		
17,700	26,323½	38,000	1,054,062½	6,455,800	9,648,638½	36,833,144	39,600

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued*—TOBACCO. UNDER

DR. No. 17.—COMPARATIVE STATEMENT of Warehouse Returns

Provinces.	Remaining in Warehouse from last year.			Warehoused.		
	Tobacco.	Cigarettes	Overweight Cigarettes.	Tobacco.	Cigarettes.	Overweight Cigarettes.
1912.	Lbs.	No.	No.	Lbs.	No.	No.
Ontario	327,419			802,505½	3,000	
Quebec	533,759	3,776,550		6,963,473	26,610,350	71,390
New Brunswick						
Nova Scotia	1,450					
Manitoba					1,506,600	
British Columbia	5,444					
Totals	868,072	3,776,550		7,765,978½	28,119,950	71,390
1913.						
Ontario	308,516			788,777½		
Quebec	354,353	4,018,944	9,600	7,771,924	28,330,600	30,000
New Brunswick						
Nova Scotia	1,490					
Manitoba		1,046,350			3,419,550	
British Columbia						
Totals	664,359	5,065,294	9,600	8,560,701½	31,750,150	30,000

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

AMENDED RATES OF DUTY, JUNE 1, 1908.

for the Fiscal Years ended March 31, 1912 and 1913.

Received from other Divisions.				Totals.		
Tobacco.		Cigarettes.		Tobacco.	Cigarettes.	Overweight Cigarettes.
Removed during year.	In Transit last year.	Removed during year.	In Transit last year.			
Lbs.	Lbs.	No.	Lbs.	Lbs.	No.	No.
91,208	980	10,500		1,222,112½	13,500	
5,440	18			7,502,690	30,386,900	71,390
3,160				3,160		
29,235				30,685		
					1,506,600	
235,335	22,421			263,200		
364,378	23,419	10,500		9,021,847½	31,907,000	71,390
96,040	2,660	17,200	500	1,195,993½	17,700	
3,304				8,129,581	32,349,544	39,600
5,245				5,245		
39,454	1,100			42,044		
					4,465,900	
264,715	11,060			275,775		
408,758	14,820	17,200	500	9,648,638½	36,833,144	39,600

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—TOBACCO. UNDER

No. 17.—Comparative Statement

Provinces.	Entered for Consumption.				Removed to other Divisions.			
					Tobacco.		Cigarettes.	
	Tobacco at 5c. per lb.	Cigarettes at $2.40 per M.	Overweight Cigarettes, at $7 per M.	Duty.	Warehoused in Divisions to which removed.	In Transit.	Warehoused in Divisions to which removed.	In Transit.
1912.	Lbs.	No.	No.	$ cts.	Lbs.	Lbs.	No.	No.
Ontario	911,088			45,554 41				
Quebec	6,765,784	26,350,956	61,790	401,964 10	354,510	14,820	10,500	500
New Brunswick	3,160			158 00				
Nova Scotia	29,195			1,459 75				
Manitoba		460,250		1,104 60				
British Columbia	253,332			12,666 60	9,868			
Totals	7,962,559	26,811,206	61,790	462,907 46	364,378	14,820	10,500	500
1913.								
Ontario	911,559½			45,577 98				
Quebec	6,938,138½	27,366,094	39,600	412,862 79	387,598	6,115	17,200	
New Brunswick	5,245			262 25				
Nova Scotia	42,044			2,102 20				
Manitoba		2,911,350		6,987 24				
British Columbia	251,955			12,597 75	21,160			
Totals	8,148,942	30,277,444	39,600	480,390 21	408,758	6,115	17,200	

Total duty collected ex-manufactory and ex-warehouse including Canada Twist, Raw Leaf, and other materials.....
License fees.....

Inland Revenue Department,
Ottawa, June 1, 1913.

SESSIONAL PAPER No. 12

AMENDED RATES OF DUTY JUNE 1, 1908.

of Warehouse Returns, &c.—*Concluded.* CR.

Exported.		Free and written off.		Taken for re-working.		Remaining in Warehouse.			Totals.		
Tobacco.	Cigarettes.	Tobacco.	Cigarettes.	Tobacco.	Cigarettes.	Tobacco.	Cigarettes.	Overweight Cigarettes.	Tobacco.	Cigarettes.	Overweight Cigarettes.
Lbs.	No.	Lbs.	No.	Lbs.	No.	Lbs.	No.	No.	Lbs.	No.	No.
908½	3,000	1,500	10,500	100	.....	308,516	.....		1,222,112½	13,500	.....
4,854½	6,000	70	...	8,298½	.....	354,353	4,018,944	9,600	7,502,690	30,386,900	71,390
.....	.....	...	.....	.....	.....	.....	.....	...	3,160	.....	.....
.....	.....	.....	...	.....	.....	1,490	.....	...	30,685	.....	.....
.....	...	...	...	.....	.....	.....	1,046,350	...	.....	1,506,600	.....
.....	.....	.....	...	.....	.....	.....	.....	.....	263,200	.....	...
5,763	9,000	1,570	10,500	8,398½	.....	664,359	5,065,294	9,600	9,021,847½	31,907,000	71,390
1,103½	.....	...	17,700	.....	.....	283,330½	.....	...	1,195,993½	17,700	.....
3,334	27,000	.....	...	26,323½	38,000	768,072	4,901,250	....	8,129,581	32,349,544	39,600
.....	.....	.....	.....	.....	.....	.....	.....	...	5,245	.....	...
.....	.....	.....	.....	.....	.....	.....	.....	....	42,044	.....	.....
.....	.....	.....	.....	.....	.....	.....	1,554,550	.....	.....	4,465,900	.....
.....	.....	.....	.....	.....	.....	2,660	.....	...	275,775	..	.....
4,437½	27,000	.....	17,700	26,323½	38,000	1,054,062½	6,455,800	.....	9,648,638½	36,833,144	39,600

1912.	1913.
$8,127,546 00	$9,188,718 96
3,230 00	3,462 00
$8,130,776 00	$9,192,180 96

W. HIMSWORTH,
Deputy Minister

APPENDIX A.—*Continued*—RAW LEAF TOBACCO, INCLUDING STEMS,

DR. No. 18.—WAREHOUSE RETURN for the

Remaining in Warehouse from last year.	Imported.	Warehoused ex-Factory.	Received from other Divisions.		Totals.	Divisions.
			Removed during year.	In Transit last year.		
Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	
1,549	6,195	954	784	.....	9,482	....Belleville, Ont.....
30,926	63,847	2,970	2,020	.....	99,763	....Brantford " ....
8,141	29,398	776	1,359	304	39,978	....Guelph " ...
1,375,654	2,516,287	316,197	4,699	1,117	4,213,954	... Hamilton " ....
44,104	60,120	7,333	4,594	.....	116,151	....Kingston " ....
258,875	990,729	73,683	8,649½	159	1,332,095½	....London " ....
1,610	3,742½	.....	154	.....	5,506½	....Ottawa " ....
4,490	7,575	.....	210	.....	12,275	....Owen Sound " ....
2,495	907	49	.....	.....	3,451	....Perth " ....
494	2,204	.....	.....	.....	2,698	...Peterborough " ....
2,642	1,205	.....	441	.....	4,288	....Port Arthur " ...
1,794	6,359	.....	499	.....	8,652	....Prescott " ....
8,550	9,406	699	1,492	156	20,303	....St. Catharines " ....
7,767	23,803½	.....	734	.....	32,304½	....Stratford " ....
258,813	664,690	78,803	2,342	.....	1,004,648	....Toronto " ....
15,567	86,987	4,273	1,107	.....	107,934	....Windsor " ...
2,023,471	4,473,455	485,737	29,084½	1,736	7,013,483½	.... Totals.....
19,083½	15,113	.....	9,714	151	44,061½	....Joliette, Que.....
7,447,739¾	15,334,095¾	291,666	18,560	.....	23,092,061½	....Montreal " ....
83,543	262,236	6,883	7,164½	.....	359,826½	....Quebec " ....
....	10,301	.....	31,821	.....	42,122	....St. Hyacinthe " ....
173,507	441,673	28,344	2,264	2½	645,790½	....Sherbrooke " ....
1,950	2,466	.....	.....	.....	4,416	....Three Rivers " ....
7,725,823¼	16,065,884¾	326,893	69,523½	153½	24,188,278	.....Totals.....
12,163	18,583	.....	742	.....	31,488	....St. John, N.B.....
759	8,134	.....	158	.....	9,051	....Halifax, N.S.....
1,749	2,948	.....	870	.....	5,567	....Pictou " .....
2,508	11,082	.....	1,028	.....	14,618	.....Totals.....
33,154	.....	.....	.....	.....	33,154	...Charlottetown, P.E.I.
56,174	115,570	8,672	1,940½	.....	182,356½	....Winnipeg, Man.....
3,315	14,964	.....	276	.....	18,555	... Moose Jaw, Sask.....
19,833	121,648	15,085	534	.....	157,100	....Calgary, Alta.....
50,939	134,420	11,770	2,632	.....	199,761	....Vancouver, B.C.....
16,408	57,657	1,297	1,013	428	76,803	....Victoria " .....
67,347	192,077	13,067	3,645	428	276,564	....Totals.....
9,943,788¼	21,013,263¾	849,454	106,773½	2,317½	31,915,597	....Grand Totals...

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

SCRAPS AND CUTTINGS.

Fiscal Year ended March 31, 1913. CR.

Entered for Consumption.		Removed to other Divisions.		Exported.	Destroyed.	Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in divisions to which removed.	In Transit.				
Std. lbs.	$ cts.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.
5,420	1,517 60	1,799	.....	954	.....	1,309	9,482
71,491	20,018 32	.....	.....	2,971	104	25,194	99,763
27,571	7,891 38	276	.....	776	34	11,321	39,978
1,912,785	537,362 56	6,285	722	405,048	267	1,888,847	4,213,954
55,754	15,652 42	288	.....	7,333	.....	52,776	116,151
953,392½	288,576 96	11,730	1,806	82,296	.....	282,871	1,332,095½
4,142½	1,159 90	.....	.....	.....	.....	1,364	5,506½
7,412	2,077 04	538	.....	.....	.....	4,325	12,275
836	234 08	.....	.....	.....	.....	2,615	3,451
1,957	547 96	.....	.....	.....	.....	741	2,698
1,859	520 52	2,429	.....	.....	.....	.....	4,288
5,977	1,673 56	.....	.....	134	.....	2,541	8,652
11,160	3,228 68	145	.....	699	.....	7,999	20,303
25,440½	7,126 70	785	.....	.....	.....	6,079	32,304½
619,340	174,685 42	18,211	133	81,124	1,998	283,842	1,004,648
76,518	24,383 80	674	.....	5,318	74	25,350	107,934
3,781,358½	1,086,656 90	43,160	2,661	586,653	2,477	2,597,171	7,013,483½
30,685½	8,624 66	654	298½	.....	157	12,266½	44,061½
14,287,052½	4,036,803 17	53,582½	565½	333,298	3,075½	8,414,487	23,092,061½
253,379	71,049 72	653	225	6,883	27	98,659½	359,826½
21,093½	6,268 36	2,394	.....	.....	.....	18,634½	42,122
402,329½	112,726 74	2,295	.....	29,659	.....	211,507	645,790½
3,518	985 04	85	.....	.....	.....	813	4,416
14,998,058½	4,236,457 69	59,663½	1,089½	369,840	3,259½	8,756,367½	24,188,278
17,863	5,001 64	.....	.....	.....	.....	13,625	31,488
7,197	2,015 16	.....	.....	.....	.....	1,854	9,051
4,042	1,131 76	.....	.....	.....	.....	1,525	5,567
11,239	3,146 92	.....	.....	.....	.....	3,379	14,618
3,439	962 92	.....	.....	.....	48	29,667	33,154
125,012½	35,725 76	1,024	.....	11,426	919	43,975	182,356½
11,337	3,234 98	.....	.....	926	.....	6,292	18,555
102,724	28,874 30	1,078	.....	15,759	106	37,433	157,100
127,680	37,876 30	1,130	.....	12,840	.....	58,111	199,761
53,520	15,998 35	718	.....	2,578	.....	19,987	76,803
181,200	53,874 65	1,848	.....	15,418	.....	78,098	276,564
19,232,231¼	5,453,935 76	106,773½	3,750½	1,000,022	6,809½	11,566,010¼	31,915,597

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued*—RAW LEAF TOBACCO,

DR. No. 19.—COMPARATIVE STATEMENT of Warehouse Returns

Remaining in Warehouse from last year.	Imported.	Warehoused ex-Factory.	Received from other Divisions.		Totals.	Provinces.
			Removed during the year.	In Transit last year.		
Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	1912.
2,141,181	3,327,022¾	443,399	18,647	1,459	5,931,708¾	....Ontario .....
8,447,775	12,940,080¾	319,215	35,426½	3,901	21,746,398¼	....Quebec .....
15,091	14,954	.....	.....	65	30,110	....New Brunswick .....
2,978	10,974	.....	444	.....	14,396	....Nova Scotia.....
37,098	2,604	.....	.....	.....	39,702	....Prince Edward Island
59,662	131,080	17,579	571	94	208,986	....Manitoba . . ..
4,344	13,209	1,666	.....	.....	19,219	... Saskatchewan.....
13,620	71,893	4,851	97	232	90,693	....Alberta.....
78,330	149,566	15,126	1,223	.....	244,245	....British Columbia.....
10,800,079	16,661,383½	801,836	56,408½	5,751	28,325,458	.....Totals..... ....
						1913.
2,023,471	4,473,455	485,737	29,084½	1,736	7,013,483½	....Ontario ....
7,725,823¼	16,065,884¾	326,893	69,523½	153½	24,188,278	... Quebec .....
12,163	18,583	.....	742	....	31,488	....New Brunswick .....
2,508	11,082	.....	1,028	.....	14,618	... Nova Scotia.....
33,154	.....	.....	.....	.....	33,154	....Prince Edward Island
56,174	115,570	8,672	1,940½	.....	182,356½	....Manitoba .....
3,315	14,964	.....	276	....	18,555	....Saskatchewan.....
19,833	121,648	15,085	534	.....	157,100	....Alberta..... .....
67,347	192,077	13,067	3,645	428	276,564	....British Columbia.....
9,943,788¼	21,013,263¾	849,454	106,773½	2,317½	31,915,597	.....Totals.....

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

INCLUDING STEMS, SCRAPS AND CUTTINGS. CR.

for the Fiscal Years ended March 31, 1912 and 1913.

Entered for Consumption.		Removed in Bond to other Divisions.		Exported.	Destroyed.	Remaining in Warehouse.	Totals.
Quantity.	Duty.	Warehoused in divisions to which removed.	In Transit.				
Std. lbs.	$ cts.	Std lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.	Std. lbs.
3,493,703¼	997,746 61	26,139½	1,432	386,075	888	2,023,471	5,931,708¾
13,593,442½	3,833,025 48	25,634	457½	395,047	5,994	7,725,823¼	21,746,398¼
17,339	4,854 92	127	.....	481	....	12,163	30,110
11,888	3,328 64	....	.....	... .	....	2,508	14,396
4,948	1,385 44	.. ..	.....	1,600	....	33,154	39,702
130,413	37,340 10	3,028	.....	19,371	....	56,174	208,986
14,191	4,040 40	....	... .	1,666	47	3,315	19,219
65,858	18,457 60	151	... .	4,851	....	19,833	90,693
159,590	47,460 98	1,329	428	15,551	.. ..	67,347	244,245
17,491,372¾	4,947,640 17	56,408½	2,317½	824,642	16,929	9,943,788¼	28,325,458
3,781,358½	1,086,656 90	43,160	2,661	586,653	2,477	2,597,174	7,013,483½
14,998,058¾	4,236,457 69	50,663½	1,089¼	369,840	3,259½	8,756,367¼	24,188,278
17,863	5,001 64	....	.... ..	....	.....	13,625	31,488
11,239	3,146 92	.. ..	.. ....	.....	.....	3,379	14,618
3,439	962 92	.....	.....	... .	48	29,667	33,154
125,012½	35,725 76	1,024	....	11,426	919	43,975	182,356½
11,337	3,234 98	....	....	926	.....	6,292	18,555
102,724	28,874 30	1,078	....	15,759	106	37,433	157,100
181,200	53,874 65	1,848	....	15,418	.....	78,098	276,564
19,232,231¼	5,453,935 76	106,773½	3,750½	1,000,022	6,809½	11,566,010¼	31,915,597

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued*—OTHER MATERIALS.

DR. No. 20.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913. CR.

Remaining in Warehouse from last year.	Warehoused.	Totals.	Division	Entered for Consumption.		Remaining in Warehouse.	Totals.
				Quantity.	Duty.		
Lbs.	Lbs.	Lbs.		Lbs.	$ cts.	Lbs.	Lbs.
120,156	1,688,597	1,808,753	Montreal, Q.	1,615,596	258,495 36	193,157	1,808,753
120,156	1,688,597	1,808,753	Totals...	1,615,596	258,495 36	193,157	1,808,753

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—OTHER MATERIALS.

DR. No. 21.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913. CR.

Remaining in Warehouse from last year.	Warehoused.	Totals.	Provinces.	Entered for Consumption.		Remaining in Warehouse.	Totals.
				Quantity.	Duty.		
Lbs.	Lbs.	Lbs.	1912.	Lbs.	$ cts.	Lbs.	Lbs.
165,994	1,326,306	1,492,300	Quebec.....	1,372,144	219,543 04	120,156	1,492,300
			1913.				
120,156	1,688,597	1,808,753	Quebec	1,615,596	258,495 36	193,157	1,808,753

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

APPENDIX A.—*Continued*—CANADA TWIST TOBACCO.

No. 22.—STATEMENT of Revenue collected from Canada Twist Tobacco for the Fiscal Year ended March 31, 1913.

Divisions.	Licenses.		Canada Twist, at 5 cts. per lb.	Total Duty Collected including License Fees.
	No.	Fees.		
		$	Lbs.	$ cts.
Ottawa, Ont	2	4	260	17 00
Prescott "	1	2	660	35 00
Totals	3	6	920	52 00
Montreal, Que	28	56	16,615	886 75
Totals	28	56	16,615	886 75
Grand totals	31	62	17,535	938 75

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—CANADA TWIST TOBACCO.

No. 23.—COMPARATIVE STATEMENT for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Canada Twist, at 5 cts. per lb.	Total Duty Collected including License Fees.
	No.	Fees.		
1912		$	Lbs.	$ cts.
Ontario	8	16	1,260	79 00
Quebec	32	64	15,838	855 90
Totals	40	80	17,098	934 90
1913.				
Ontario	3	6	920	52 00
Quebec	28	56	16,615	886 75
Totals	31	62	17,535	938 75

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—CIGARS.

No. 24.—RETURN of Manufactures for the Fiscal year ended March 31, 1913.

Divisions.	Licenses.		Total Raw Leaf Tobacco and other materials actually used.	Deficiencies Paying Duty.	Cigars at $3 per thousand.			Cigars at $2 per thousand.			Total Duty collected ex-Manufactory, including License Fees.
	No.	Fees.		Cigars.	Manufactured.	Paid Duty.	Warehoused.	Manufactured.	Paid Duty.	Warehoused.	
		$ cts.	Lbs.	No.	No.	No.	No.	No.	No.	No.	$ cts.
Belleville, Ont	2	100 00	4,663					251,725	49,375	202,350	198 75
Brantford "	5	250 00	79,427		1,200	1,200		4,283,935	3,034,085	1,249,850	6,321 77
Guelph "	9	425 00	47,886					2,535,410	1,282,885	1,252,525	2,990 77
Hamilton "	11	550 00	388,269		4,020	3,000	1,020	18,126,260	5,465,485	12,660,775	11,489 97
Kingston "	2	100 00	63,437					3,386,250	1,180,000	2,206,250	2,460 00
London "	23	1,150 00	958,811½					47,364,510	34,058,965	13,305,545	69,267 93
Ottawa "	2	75 00	12,274½					679,640	679,640		1,434 28
Owen Sound "	2	100 00	21,327					999,185	999,185		2,098 37
Perth "	2	100 00	1,146	7,879				51,875	37,675	14,200	191 10
Peterborough "	1	50 00	1,938					106,825	106,825		263 65
Port Arthur "	1	50 00	1,560					94,400	53,800	40,600	157 60
Prescott "	2	100 00	11,217					585,600	447,650	137,950	995 30
St. Catherines "	9	450 00	26,670					1,601,800	1,591,800	10,000	3,633 60
Stratford "	4	200 00	29,825	3,315				1,499,430	1,218,330	281,100	2,643 29
Toronto "	20	975 00	556,041½					27,473,930	17,838,345	9,635,585	36,651 69
Windsor "	7	350 00	99,080					5,169,410	4,465,360	704,050	9,280 72
Totals	102	5,025 00	2,303,572½	11,194	5,220	4,200	1,020	114,210,185	72,509,405	41,700,780	150,078 79
Joliette, Que	7	350 00	134,336½	2,150				7,546,700	4,904,850	2,641,850	10,164 00
Montreal "	44	2,075 00	2,519,317½	340,930	480	480		132,608,045	81,122,410	51,485,635	165,003 12
Quebec "	4	200 00	88,029½	818	6,162	4,170	1,992	5,374,245	2,689,825	2,684,420	5,593 80
St. Hyacinthe "	5	225 00	19,646½					1,312,250	426,750	885,500	1,078 50
Sherbrooke "	6	300 00	178,235					9,448,505	4,144,160	5,304,345	8,588 32
Three Rivers "	2	100 00	13,582					769,715	560,065	209,650	1,220 13
Totals	68	3,250 00	2,953,147¼	343,898	6,642	4,650	1,992	157,059,460	93,848,060	63,211,400	191,647 87

St. John, N.B	2	100 00	68,274					3,762,240	923,590	2,838,650	1,947 18
Halifax, N.S	2	100 00	16,638					819,795	512,890	306,905	1,125 78
Pictou "	2	100 00	5,631					277,425	238,925	38,500	577 85
Totals	4	200 00	22,269					1,097,220	751,815	345,405	1,703 63
Winnipeg	15	750 00	146,592½	23,779	3,006	3,006		7,052,255	5,658,220	1,394,035	12,123 00
Moose Jaw, Sask.	8	300 00	9,495	2,415				602,525	602,525		1,509 85
Calgary, Alberta	12	600 00	94,344	2,622				4,613,000	4,613,000		9,831 25
Vancouver, B.C	28	1,325 00	129,115	11	6,000	6,000		6,686,980	6,425,105	261,875	14,193 24
Victoria, B.C	14	700 00	48,499					2,657,650	2,657,650		6,015 30
Totals	42	2,025 00	177,614	14	6,000	6,000		9,344,630	9,082,755	261,875	20,208 54
Grand Totals	253	12,259 00	5,775,308½	383,922	20,868	17,856	3,012	297,741,515	187,989,370	109,752,145	389,050 11

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX. A—*Continued*—CIGARS.

No. 25.—Comparative Statement of Manufactures for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Total Raw Leaf Tobacco and other Materials actually used.	Deficiencies Paying Duty.	Cigars at $3 per Thousand.			Cigars at $2 per Thousand.			Total Duty Collected ex-manufactory including License Fees.
	No.	Fees.		Cigars.	Manufactured.	Paid Duty	Warehoused.	Manufactured.	Paid Duty.	Warehoused	
1912.		$ cts.	Lbs.	No.	No.	No.	No.	No.	No.	No.	$ cts.
Ontario	99	4,875 00	1,922,564¼	111,431	4,950	4,950	.....	98,390,485	63,176,585	35,213,900	131,465 89
Quebec	63	3,025 00	2,394,801	6,947	18,150	18,150	.....	126,357,235	76,782,825	49,574,410	156,658 99
New Brunswick	3	150 00	62,251	.....	.....	.....	.....	3,750,575	912,050	2,838,525	1,974 10
Nova Scotia	4	200 00	17,556	.....	.....	.....	.....	925,205	782,520	142,685	1,765 04
Manitoba	14	675 00	140,704	.....	2,904	1,482	1,422	6,988,485	4,405,550	2,582,935	9,490 57
Saskatchewan	4	200 00	14,698	7,409	.....	.....	.....	709,070	709,070	.....	1,632 94
Alberta	10	450 00	60,418½	840	.....	.....	.....	2,960,575	2,943,175	17,400	6,338 03
British Columbia	38	1,900 00	159,560	1,841	1,020	1,020	.....	8,798,280	8,719,080	79,200	19,344 92
Totals	235	11,475 00	4,772,552¾	128,468	27,024	25,602	1,422	248,879,910	158,430,855	90,449,055	328,670 48

1913.											
Ontario	102	5,025 00	2,303,572½	11,194	5,220	4,200	1,020	114,210,185	72,509,405	41,700,780	150,078 79
Quebec	68	3,250 00	2,953,147½	343,898	6,642	4,650	1,992	157,059,460	93,848,060	63,211,400	191,647 87
New Brunswick	2	100 00	68,274					3,762,240	923,590	2,838,650	1,947 18
Nova Scotia	4	200 00	22,269					1,097,220	751,815	345,405	1,703 63
Manitoba	15	750 00	146,592½	23,779	3,006	3,006		7,052,255	5,658,220	1,394,035	12,123 00
Saskatchewan	8	300 00	9,495	2,415				602,525	602,525		1,509 85
Alberta	12	600 00	94,344	2,622				4,613,000	4,613,000		9,831 25
British Columbia	42	2,025 00	177,614	14	6,000	6,000		9,344,630	9,082,755	261,875	20,208 54
Totals	253	12,250 00	5,775,308½	383,922	20,868	17,856	3,012	297,741,515	187,989,370	109,752,145	389,050 11

Memo.

Total number of cigars manufactured

1912 248,906,934
1913 297,762,383

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued*—CIGARS.

DR. No. 26.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913.

Divisions.	Remaining in Warehouse from Last Year.		Warehoused at $2 per M.	Received from Other Divisions.		Totals.	
	Foreign at $6 per M.	At $2 per M.		Removed during the year at $2 per M.	In Transit last year at $2 per M.	Foreign at $6 per M.	At $2 per M.
	No.	No.	No.	No.	No.	No.	No.
Belleville, Ont.		117,600	202,350				319,950
Brantford "	107,400	1,217,925	1,249,850			107,400	2,467,775
Guelph "		430,725	1,252,525				1,683,250
Hamilton "		524,100	* 1,020 12,660,775	1,343,000	50,000		14,578,895
Kingston "		730,150	2,206,250				2,936,400
London "		2,856,485	13,305,545				16,162,030
Ottawa "		75,000		10,000			85,000
Perth "			14,200				14,200
Peterborough "		11,500					11,500
Port Arthur "		45,550	40,600				86,150
Prescott "		53,000	137,950				190,950
St. Catharines "		34,000	10,000				44,000
Stratford "		41,700	281,100				322,800
Toronto "		1,136,750	9,635,585	30,000			10,802,335
Windsor "	26,100	345,475	704,050			26,400	1,049,525
Totals	133,800	7,619,960	41,701,800	1,383,000	50,000	133,800	50,754,760
Joliette, Que.		770,465	2,641,850	10,000			3,422,315
Montreal "	19,300	8,168,675	51,485,635	1,677,750	25,000	19,300	61,357,060
Quebec "		1,407,830	* 1,992 2,684,420				4,094,242
St. Hyacinthe "			885,500				885,500
Sherbrooke "		2,130,855	5,304,345				7,435,200
Three Rivers "		103,100	209,650				312,750
Totals	19,300	12,580,925	63,213,392	1,687,750	25,000	19,300	77,507,067

St. John, N.B.		885,225	2,838,650				3,723,875
Halifax, N.S.		51,950	306,905				358,855
Pictou "			38,500				38,500
Totals		51,950	345,405				397,355
Winnipeg, Man.		512,690	1,394,035				1,906,725
Calgary, Alberta		17,400					17,400
Vancouver, B.C.		44,200	261,875				306,075
Grand Totals	153,100	21,712,350	109,755,157	3,070,750	75,000	153,100	134,613,257

* Cigars at $3 per M.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

No. 26.—WAREHOUSE RETURN for the Fiscal Year ended March 31, 1913.

Divisions.	Entered for Consumption.			Removed to Other Divisions.		Exported at $2 per M.	Written off at $2 per M.	Remaining in Warehouse.		Totals.	
	Quantity.		Duty.	Warehoused in Divisions to which removed at $2 per M.	In Transit at $2 per M.			Foreign at $6 per M.	At $2 per M.	Foreign at $6 per M.	At $2 per M.
	Foreign at $6 per M.	At $2 per M.									
	No.	No.	$ cts.	No.	No.	No.	No.	No.	No.	No.	No.
Belleville, Ont.		237,000	474 00						82,950		319,950
Brantford "	107,400	1,387,750	3,419 90						1,080,025	107,400	2,467,775
Guelph "		1,401,465	2,802 93						281,785		1,683,250
Hamilton "		* 1,020 12,769,550	25,542 16						1,808,325		14,578,895
Kingston "		2,106,000	4,212 00						830,400		2,936,400
London "		12,281,795	24,563 59						3,880,235		16,162,030
Ottawa "		35,000	70 00						50,000		85,000
Perth "		14,200	28 40								14,200
Peterborough "		10,000	20 00						1,500		11,500
Port Arthur "		86,150	172 30								86,150
Prescott "		163,250	326 50						27,700		190,950
St. Catharines "		44,000	88 00								44,000
Stratford "		271,200	542 40						51,600		322,800
Toronto "		9,106,605	18,213 21						1,695,730		10,802,335
Windsor "	6,100	681,275	1,399 15					20,300	368,250	26,400	1,049,525
Totals	113,500	40,596,260	81,874 54					20,300	10,158,500	133,800	50,754,760
Joliette, Que.		1,965,290	3,930 58	1,000,075	20,000				436,950		3,422,315
Montreal "		50,617,990	101,235 98	1,363,000	37,500	10,100		19,300	9,328,470	19,300	61,357,060
Quebec "		2,754,390	5,508 78				22,500		* 1,992 1,315,360		4,094,242
St. Hyacinthe "				707,675	147,500				30,325		885,500
Sherbrooke "		4,946,935	9,893 87						2,488,265		7,435,200
Three Rivers "		197,800	395 60						114,950		312,750
Totals		60,482,405	120,964 81	3,070,750	205,000	10,100	22,500	19,300	13,716,312	19,300	77,507,067

St. John, N.B.		3,052,500	6,105 00						671,375		3,723,875
Halifax, N.S.		269,475	538 95						89,380		358,855
Pictou "		22,500	45 00						16,000		38,500
Totals		291,975	583 95						105,380		397,355
Winnipeg, Man.		1,582,170	3,164 34						324,555		1,906,725
Calgary, Alberta		17,400	34 80								17,400
Vancouver, B.C.		245,575	491 15						60,500		306,075
Grand Totals	113,500	106,268,285	213,218 59	3,070,750	205,000	10,100	22,500	39,600	25,036,622	153,100	134,613,257

* Cigars at $3 per M.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued*—CIGARS.

DR. No. 27.—COMPARATIVE STATEMENT of Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Remaining in Warehouse from last year.			Warehoused at $2 per M.	Received from other Divisions.		Totals.			Entered for Consumption.		
										Quantity.		Duty.
	Foreign at $6 per M.	At $2 per M.	Canadian at $3 per M.		Removed during the year.	In Transit last year	Foreign at $6 per M.	At $2 per M.	Canadian at $3 per M.	Foreign at $6 M.	At $2 per M.	
1912.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	$ cts.
Ontario	247,275	10,394,175		35,213,900	1,720,000		247,275	47,328,075		113,475	39,645,490	79,971 83
Quebec	82,650	13,106,105	20,000	49,574,410	441,500		82,650	63,122,015	20,000	63,350	48,349,590	97,079 28
New Brunswick		1,200,300		2,838,525				4,038,825			3,153,600	6,307 20
Nova Scotia		67,575		142,685				210,260			158,310	316 62
Manitoba		536,860		*1,422 2,582,935				3,121,217			*1,422 2,607,105	5,218 47
Saskatchewan		5,975						5,975			5,975	11 95
Alberta				17,400				17,400				
British Columbia				79,200				79,200			35,000	70 00
Totals	329,925	25,310,990	20,000	90,450,477	2,161,500		329,925	117,922,967	20,000	176,825	93,956,492	188,975 35
1913.												
Ontario	133,800	7,619,960		*1,020 41,700,780	1,383,000	50,000	133,800	50,754,760		113,500	*1,020 50,595,240	81,874 54
Quebec	19,300	12,580,925		*1,992 63,211,400	1,687,750	25,000	19,300	77,507,067			60,482,405	120,964 81
New Brunswick		885,225		2,838,650				3,723,875			3,052,500	6,105 00
Nova Scotia		51,950		345,405				397,355			291,975	583 95
Manitoba		512,690		1,394,035				1,906,725			1,582,170	3,164 34
Alberta		17,400						17,400			17,400	34 80
British Columbia		44,200		261,875				306,075			245,575	491 15
Totals	153,100	21,712,350		109,755,157	3,070,750	75,000	153,100	134,613,257		113,500	106,268,285	213,218 59

* Cigars at $3 per M.

APPENDIX A.—*Continued*—CIGARS.

No. 27.—Comparative Statement of Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913—*Concluded.* Cr.

Provinces.	Removed to other Divisions.		Exported	Written off.		Remaining in Warehouse.		Totals.		
	Warehoused in Divisions to which removed.	In Transit.		At $2 per M.	Canadian at $3 per M.	Foreign at $6 per M.	At $2 per M.	Foreign at $6 per M.	At $2 per M.	Canadian at $3 per M.
1912.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Ontario	50,000		10,000	2,625		133,800	7,619,960	247,275	47,328,075	
Quebec	2,111,500	75,000	5,000		20,000	19,300	12,580,925	82,650	63,122,015	20,000
New Brunswick							885,225		4,038,825	
Nova Scotia							51,950		210,260	
Manitoba							512,690		3,121,217	
Saskatchewan									5,975	
Alberta							17,400		17,400	
British Columbia							44,200		79,200	
Totals	2,161,500	75,000	15,000	2,625	20,000	153,100	21,712,350	329,925	117,922,967	20,000
1913.										
Ontario						20,300	10,158,500	133,800	50,754,760	
Quebec	3,070,750	205,000	10,100	22,500		19,300	*1,992 13,714,320	19,300	77,507,067	
New Brunswick							671,375		3,723,875	
Nova Scotia							105,380		397,355	
Manitoba							324,555		1,906,725	
Alberta									17,400	
British Columbia							60,500		806,075	
Totals	3,070,750	205,000	10,100	22,500		39,600	25,036,622	153,100	134,613,257	

	1912.	1913.
Total duty collected, ex-manufactory and ex-warehouse	$ 506,170 83	$ 590,018 70
License fees	11,475 00	12,250 00
Totals	$ 517,645 83	$ 602,268 70

Inland Revenue Department,
Ottawa, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A—*Continued*—INSPECTION OF PETROLEUM.

No. 28.—RETURN of Inspected Petroleum and Naphtha shipped from Refineries, during the Fiscal Year ended March 31, 1913.

Divisions.	Licenses.		Petroleum.	Naphtha.	Totals.
	No.	Fees.			
		$	Gallons.	Gallons.	Gallons.
London, Ont.	3	3	21,024,455 47	4,658,721 74	25,683,177 21
Toronto, "	1	1	1,346,590 37	2,175,267 21	3,521,857 58
Windsor, "	1	1	114,391 50	46,772 90	161,164 40
Totals	5	5	22,485,437 34	6,880,761 85	29,366,199 19

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 12

APPENDIX A.—*Continued*—INSPECTION OF PETROLEUM.

No. 29.—Comparative Statement of Inspected Petroleum and Naphtha shipped from Refineries, during the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Petroleum.	Naphtha.	Totals.
	No.	Fees.			
1912.		$	Gallons.	Gallons.	Gallons.
Ontario	4	4	20,886,072 43	5,577,591 62	26,463,664 05
1913.					
Ontario	5	5	22,485,437 34	6,880,761 85	29,366,199 19

W. HIMSWORTH,
Deputy Minister.

Inland Revenue Department,
Ottawa, June 1, 1913.

APPENDIX A.—*Continued*—MANUFACTURES IN BOND.

No. 30.—RETURN of Manufactures for the

Divisions.	Licenses.		Material Used.			
	No.	Fees.	Spirits.	Beer, Wines, &c.	Nitric Acid.	Mercury.
		$ cts.	Gallons.	Gallons.	Lbs.	Lbs.
Belleville, Ont.	1	50 00	8,275 09	108 20		
Brantford "	1	50 00	7,675 29	109 15*		
Hamilton "	3	125 00	18,055 30	282 80		
Kingston "	2	100 00	11,916 29	138 56		
Ottawa "	1	50 00	5,728 50	12 50		
Perth "	2	100 00				
Toronto "	9	450 00	173,165 49	1,544 70		
Windsor "	9	450 00	21,567 32	163 30		
Totals	28	1,375 00	246,383 28	109 15* 2,250 06		
Montreal, Que	12	575 00	49,185 46	408 00†		
Quebec "	1	50 00	14,646 89	133 00		
St. Hyacinthe "	2	100 00	7,902 41	292 18		
Sherbrooke "	1	300 00	40,012 86		188,838	23,775
Totals	16	1,025 00	111,747 62	408 00† 425 18	188,838	23,775
St. John, N.B	2	100 00	17,754 83	161 80		
Winnipeg, Man	3	150 00	57,327 33	380 00		
Vancouver, B.C	1	50 00	7,613 53	113 20		
Grand Totals	50	2,700 00	440,826 59	408 00† 109 15* 3,330 24	188,838	23,775

* Malt extract. † Vinegar.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

Fiscal Year ended March 31, 1913.

Manufactured.		Paid Duty ex-Manufactory.		Warehoused.		Total Duty Collected ex-Manufactory including License Fees.
Vinegar.	Crude Fulminate.	Vinegar.	Duty.	Vinegar.	Crude Fulminate.	
Gallons.	Lbs.	Gallons.	$ cts.	Gallons.	Lbs.	$ cts.
53,666·69	.....	23,057·01	922 28	30,609 68	.....	972 28
50,353·87	.....	50,353·87	2,014 20	.....	.....	2,064 20
117,791·62	.....	32,257·79	1,290 30	85,533·83	.....	1,415 30
84,236·37	.....	16,640·73	665 63	67,595·64	.....	765 63
23,572·69	.....	....	.....	23,572·69	....	50 00
....	....	....	.....	....	.....	100 00
1,090,082·07	....	120,019·46	4,800 75	970,062·61	....	5,250 75
125,984·78	....	125,984 78	5,039 39	.. ..	.....	5,489 39
1,545,688·09	... .	368,313·64	14,732 55	1,177,374·45	... .	16,107 55
227,314·82	....	180,860·87	7,234 45	46,483·95	.....	7,809 45
89,483·21	... .	72,391·10	2,895 56	17,092·11	... .	2,945 56
52,404·67	....	16,067 30	642 70	36,337 37	.....	742 70
....	27,493	.....	....	....	27,493	300 00
369,232·70	27,493	269,319 27	10,772 71	99,913·43	27,493	11,797 71
100,604·81	..... .	67,223·27	2,688 97	33,381·54	....	2,788 97
334,025·78	.....	268,627 61	10,745 11	65,398·17	.. ..	10,895 11
42,957·04	. .....	38,063·69	1,522 56	4,893 35	.....	1,572 56
2,392,508·42	27,493	1,011,547·48	40,461 90	1,380,960·94	27,493	43,161 90

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued*—MANUFACTURES IN BOND.

No. 31.—Comparative Statement of Manufactures for

Provinces.	Licenses.		Materials Used.			
	No.	Fees.	Spirits.	Beer, Wines, &c.	Nitric Acid.	Mercury.
1912.		$ cts.	Gallons.	Gallons.	Lbs.	Lbs.
Ontario	29	1,450 00	208,044 14	*109·90 †3,389·12 1,971·48	.....	.....
Quebec	16	1,025 00	105,732 36	748·73	170,217	21,155
New Brunswick	2	100 00	16,425 31	201·30	.....	.....
Manitoba	3	150 00	46,418 40	77·50	.....	.....
British Columbia	1	50 00	5,773 14	84 20	.....	.....
Totals	51	2,775 00	382,393 35	*109·90 †3,389·12 3,083·21	170,217	21,155
1913.						
Ontario	28	1,375 00	246,383 28	*109·15 2,250·06 †408·00	.....	.....
Quebec	16	1,025 00	111,747 62	425·18	188,838	23,775
New Brunswick	2	100 00	17,754 83	161·80	.....	.....
Manitoba	3	150 00	57,327 33	380·00	.....	.....
British Columbia	1	50 00	7,613 53	113·20	.....	.....
Totals	50	2,700 00	440,826 59	*109·15 †408 00 3,330 24	188,838	23,775

* Malt extract. † Vinegar.

Inland Revenue Department,
Ottawa, June 1, 1913.

the Fiscal Years ended March 31, 1912 and 1913.

Manufactured.		Paid Duty ex-Manufactory.		Warehoused.		Total Duty Collected ex-Manufactory including License Fees.
Vinegar.	Crude Fulminate.	Vinegar.	Duty.	Vinegar.	Crude Fulminate.	
Gallons.	Lbs.	Gallons.	$ cts.	Gallons.	Lbs.	$ cts.
1,229,581·25	.....	418,037·74	16,721 54	811,543·51	....	18,171 54
368,684·43	24,885	256,462·81	10,258 39	112,221·62	24,885	11.283 39
87,219·58	....	76,682·35	3,067 34	10,537 23	....	3,167 34
286,935·72	.....	223,961·50	8,958 47	62,974·22	.....	9,108 47
33,738 09	.....	33,738·09	1,319 52	.....	.....	1,399 52
2,006,159·07	24,885	1,008,882·49	40,355 26	997,276·58	24,885	43,130 26
1,545,688·09	.....	368,313·64	14,732 55	1,177,374 45	.....	16,107 55
369,232·70	27,493	269,319·27	10,772 71	99,913 43	27,493	11,797 71
100,604 81	.....	67,223·27	2,688 97	33,381·54	.....	2,788 97
334,025·78	.....	268,627·61	10,745 11	65,398·17	....	10,895 11
42,957·04	....	38,063·69	1,522 56	4,893·35	.....	1,572 56
2,392,508·42	27,493	1,011,547·48	40,461 90	1,380,960·94	27,493	43,161 90

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—MANUFACTURES IN BOND

DR. No. 32.—WAREHOUSE RETURN for the

Remaining in Warehouse from last year.	Warehoused.		Received from other Divisions.	Totals.	
			Vinegar.		
Vinegar.	Vinegar.	Crude Fulminate.	Removed during the year.	Vinegar.	Crude Fulminate.
Galls.	Galls.	Lbs.	Galls.	Galls.	Lbs.
6,912·54	30,609·68			37,522·22	
			20,085·74	20,085·74	
18,641·35	85,533·83		3,270·48	107,445·66	
17,581·77	67,595·64			85,177·41	
2,568·48	23,572·69			26,141·17	
148,272·68	970,062·61			1,118,335·29	
193,976·82	1,177,374·45		23,356·22	1,394,707·49	
42,514·44	46,483·95			88,998·39	
18,072·35	17,092·11			35,164·46	
48,795·70	36,337·37			85,133·07	
		27,493			27,493
109,382·49	99,913·43	27,493		209,295.92	27,493
8,149·21	33,381·54			41,530·75	
38,082·56	65,398·17		8,780·97	112,261·70	
4,834·80	4,893·35			9,728·15	
354,425·88	1,380,960·94	27,493	32,137·19	1,767,524·01	27,493

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

Fiscal Year ended March 31, 1913. CR.

Divisions.	Entered for Consumption.		Removed to other Divisions. — Vinegar.	Exported.	Remaining in Warehouse.	Totals.	
	Vinegar.	Duty.	Warehoused in Divisions to which removed.	Crude Fulminate.	Vinegar.	Vinegar.	Crude Fulminate.
	Galls.	$ cts.	Galls.	Lbs.	Galls.	Galls.	Lbs.
Belleville, Ont.	29,354·06	1,174 14			8,168·16	37,522·22	
Brantford "	20,085·74	803 43				20,085·74	
Hamilton "	83,712·73	3,348 49			23,732·93	107,445·66	
Kingston "	53,830 02	2,153 21	8,780·97		22,566·42	85,177·41	
Ottawa "	16,857·51	674 30			9,283·66	26,141·17	
Toronto "	831,688·10	33,267 50	23,356·22		263,290·97	1,118,335 29	
Totals.	1,035,528·16	41,421 07	32,137·19		327,042·14	1,394,707·49	
Montreal, Que.	52,074·92	2,082 99			36,923·47	88,998·39	
Quebec "	16,441·60	657 66	*1,630·75		17,092·11	35,164·46	
St. Hyacinthe "	37,684 87	1,507 37			47,448 20	85,133·07	
Sherbrooke "				27,493			27,493
Totals.	106,201·39	4,248 02	*1,630·75	27,493	101,463·78	209,295·92	27,493
St. John, N.B.	7,563·72	302 55			33,967 03	41,530·75	
Winnipeg, Man.	53,335 86	2,133 41			58,925·84	112,261·70	
Vancouver, B.C.	4,834 80	193 39			4,893·35	9,728·15	
Grand Totals	1,207,463 93	48,298 47	*1,630·75 32,137·19	27,493	526,292·14	1,767,524·01	27,493

* Written off.

W. HIMSWORTH,
Deputy Minister.

APPENDIX A.—*Continued.*—MANUFACTURES IN BOND.

DR. No. 33.—COMPARATIVE STATEMENT of Warehouse Returns

Remaining in Warehouse from last year.	Warehoused.		Received from other Divisions.		Totals.		Provinces.
			Vinegar.				
Vinegar.	Vinegar.	Crude Fulminate.	Removed during the year.	In Transit last year.	Vinegar.	Crude Fulminate	
Galls.	Galls.	Lbs.	Galls.	Galls.	Galls.	Lbs.	1912.
272,352·95	811,543·51	.....	6,932·65	.....	1,090,829·11	.....	..Ontario .....
82,190·82	112,221·62	24,885	4,596·80	.....	199,009·24	24,885	..Quebec .....
6,390·36	10,537·23	.....	.....	.....	16,927·59	.....	..New Brunswick..
30,924·95	62,974·22	.....	14,842·25	3,727 68	112,469 10	.....	..Manitoba .....
4,834·80	.....	.....	.....	.....	4,834·80	.....	..British Columbia
396,693·88	997,276·58	24,885	26,371·70	3,727·68	1,424,069 84	24,885	....Totals.....
							1913.
193,976·82	1,177,374·45	.....	23,356·22	.....	1,394,707·49	.....	..Ontario.....
109,382·49	99,913·43	27,493	.....	.....	209,295 92	27,493	..Quebec.....
8,149·21	33,381·54	.....	.....	.....	41,530·75	.....	..New Brunswick..
38,082·56	65,398·17	.....	8,780·97	.....	112,261 70	.....	..Manitoba .....
4,834·80	4,893·35	.....	.....	.....	9,728·15	.....	..British Columbia
354,425·88	1,380,960·94	27,493	32,137·19	.....	1,767,524·01	27,493	....Totals.....

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 1, 1913.

for the Fiscal Years ended March 31, 1912 and 1913. CR.

Entered for Consumption.		Removed to other Divisions. Vinegar.	Exported.	Remaining in Warehouse.	Totals.	
Vinegar.	Duty.	Warehoused in Divisions to which removed.	Crude Fulminate	Vinegar.	Vinegar.	Crude Fulminate.
Galls.	$ cts.	Galls.	Lbs.	Galls.	Galls.	Lbs.
871,558 22	34,862 34	*3,519 17 21,774 90	.....	193,976 82	1,090,829 11	.....
85,029 95	3,401 22	4,596 80	24,885	109,382 49	199,009 24	24,885
8,778 38	351 14	.....	.....	8,149 21	16,927 59	.....
74,386 54	2,975 45	.....	.....	38,082 56	112,469 10	.....
.....	.....	.....	.....	4,834 80	4,834 80	.....
1,039,753 09	41,590 15	*3,519 17 26,371 70	24,885	354,425 88	1,424,069 84	24,885
1,035,528 16	41,421 07	32,137 19	.....	327,042 14	1,394,707 49	.....
106,201 39	4,248 02	*1,630 75	27,493	101,463 78	209,295 92	27,493
7,563 72	302 55	.....	.....	33,967 03	41,530 75	.....
53,335 86	2,133 44	.....	.....	58,925 84	112,261 70	.....
4,834 80	193 39	.....	.....	4,893 35	9,728 15	.....
1,207,463 93	48,298 47	*1,630 75 32,137 19	27,493	526,292 14	1,767,524 01	27,493

*Written off.

	1912.	1913.
Total duty collected, ex-manufactory and ex-warehouse	$ 81,945 41	$ 88,760 37
Licenses fees	2,775 00	2,700 00
Totals	$ 84,720 41	$ 91,460 37

W. HIMSWORTH,
Deputy Minister.

APPENDIX A —*Continued.*—ACETIC ACID.

No. 34.—RETURN of Manufactures for the Fiscal Year ended March 31, 1913.

DIVISIONS.	Licenses.		Manufactured.	Paid Duty ex-Manufactory.		Total Duty Collected ex-Manufactory including License Fees.
	No.	Fees.	Acetic Acid.	Acetic Acid.	Duty.	
		$ cts.	Galls.	Galls.	$ cts.	$ cts.
Montreal, Que.	1	50 00	261,890·28	261,890·28	10,475·60	10,525 60

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.—*Continued.*—ACETIC ACID.

No. 35.—COMPARATIVE STATEMENT of Manufactures for the Fiscal Years ended March 31, 1912 and 1913.

Provinces.	Licenses.		Manufactured.	Paid Duty ex-Manufactory.		Warehoused.	Total Duty Collected ex-Manufactory including License Fees.
	No.	Fees.	Acetic Acid.	Acetic Acid.	Duty.	Acetic Acid.	
1912.		$ cts.	Galls.	Galls.	$ cts.	Galls.	$ cts.
Quebec...	2	150 00	278,749·02	256,551·67	10,262 06	22,197·35	10,412 06
1913.							
Quebec.....	1	50 00	261,890·28	261,890·28	10,475 60	.....	10,525 60

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.—*Continued.*—ACETIC ACID.

No. 36.— Warehouse Return for the Fiscal Year ended March 31, 1913.

Dr. Cr

Remaining in Warehouse from Last Year.	Warehoused.	Total.	Division.	Entered for Consumption.		Total.
Acetic Acid.	Acetic Acid.	Acetic Acid.		Acetic Acid.	Duty.	Acetic Acid.
Galls.	Galls.	Galls.		Galls.	$ cts.	Galls.
*	.....	.....	.....	.....	.....	.....

* No warehousing transactions during year.

APPENDIX A.—*Continued.*—ACETIC ACID.

No. 37.—Comparative Statement of Warehouse Returns for the Fiscal Years ended March 31, 1912 and 1913.

Dr. Cr.

Warehoused.	Total.	Provinces.	Entered for Consumption.		Total.
Acetic Acid.	Acetic Acid.		Acetic Acid.	Duty.	Acetic Acid.
Galls.	Galls.	1912.	Galls.	$ cts.	Galls.
22,197·35	22,197·35	....Quebec..	22,197·35	887 89	22,197 35
		1913.			
.....	.....	.....Quebec....	.....	.. ..	....

	1912.	1913.
Total duty collected ex-manufactory and ex-warehouse...	$ 11,149 94	$ 10,475 60
License fees	150 00	50 00
Totals.....	$ 11,299 95	$ 10,525 60

W. HIMSWORTH,
Deputy Minister.

Inland Revenue Department,
Ottawa, June 1, 1913.

(A)

METHYLATED SPIRITS.

No. 38.—STATEMENT showing the quantity of Raw Materials on hand on April 1, 1912, and March 31, 1913, and brought in during the year ended March 31, 1913.

DR. CR.

Names of Articles.	Stock on hand April 1, 1911.	Brought in during the year.	Total to be Accounted for.	Used in manufacture of Methylated Spirits.	Sold.	Stock on hand March 31, 1912.	Total Accounted for.
	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.
Alcohol.....	1,730·19	216,124·15	217,854·34	212,007·21	....	5,847·13	217,854·34
Wood Naphtha..	10,550·12	28,749·89	39,300·01	37,417·13	..... .	1,882·88	39,300·01

(B)

STATEMENT showing the quantity of Raw Materials used, and Methylated Spirits produced therefrom.

DR CR.

Alcohol used Statement (A) above.	Wood Naphtha used Statement (A) above.	Methylated Spirits used Statement (C) below.	Total to be Accounted for.	Methylated Spirits produced.	Lost in Manufacture.		Total Accounted for
Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	p. c.	Pr'f galls.
212,007·21	37,417·13	.. ....	249,424·34	247,760·10	1,664·24	0·67	249,424·34

(C)

STATEMENT showing the quantity of Methylated Spirits on hand on April 1, 1912, and March 31, 1913, also quantity brought in, manufactured, sold and otherwise accounted for during the year ended March 31, 1913.

DR. CR.

Stock on hand April 1, 1912.	Manufactured as per Statement (B) above.	Brought in during the year.	Total to be Accounted for.	Sold.	Used in Methylated Warehouse.	Re-used in manufacture of Methylated Spirits.	Stock on hand March 31, 1912.	Total Accounted for
Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.	Pr'f galls.
205·50	247,760·10	....	247,965·60	244,708·17	.....	....	3,257·43	247,965·60

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B

APPENDIX B.

No. 1.—Details of Excise Expenditures for the Year ending March 31, 1913.

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.		
	Belleville.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Iler, B.	Salary as Collector for the year	31 50	.....	7 20	2,661 30	
Standish, J. G.	" Special Class Exciseman for the year	42 00	.....	4 32	2,053 68	
Cook, W. J.	" Deputy Collector Class "A" for the year	49 80	*53 34 87 48	3 60	1,607 52	
McCoy, Wm.	" Special Class Exciseman from April 1 to Nov. 1, 1912. Died Oct. 27, 1912.	18 62	....	2 52	912 17	
McFee, A. C.	" 1st Class Exciseman for the year	.....	.....	2 88	1,372 32	
Brown, W. J.	" Special Class Exciseman for the year	.....	72 48	4 32	1,371 18	
Wilson, H. R.	" 1st Class Exciseman for the year	.....	62 40	2 88	1,184 64	
Sprague, F. W.	" 1st " "	.....	54 81	2 88	1,039 77	
Lally, J. E.	" 3rd " "	.....	45 00	2 88	852 12	
Treverton, C. B.	" Appointed 3rd Class Proby. Exciseman from July 1 to Dec. 9, 1912, and 3rd Class from Dec. 10, 1912 to Mar. 31, 1913	.....	23 73	1 92	449 34	
	Salaries	141 92	399 24	35 40	13,504 04	
	Contingencies	.... ..	.....	... .	2,584 36	
						16,088 40
	Brantford.					
O'Donahue, M. J.	Salary as Collector for the year	39 96	.....	7 20	1,952 76	
Sloan, W.	" Deputy Collector Class "A" for the year	.....	75 00	3 60	1,421 40	
Orr, H. N.	" 1st Class Exciseman for the year	49 80	.....	2 88	1,372 32	
Newsome, I.	" 2nd " "	.. ...	59 79	2 88	1,134 78	
Schuler, F. C.	" 2nd " "	.....	54 81	2 88	1,039 77	
Dowling, D. J.	" 3rd " from April 1, 1912 to Mar. 1, 1913. Dispensed with.	.....	39 50	2 64	749 18	
Fairley, W.	" Deputy Collector Class "B" for the year	.....	31 66	2 88	598 79	
	Salaries	89 76	260 76	24 96	8 269 00	
	Contingencies	.....	.....	.....	809 06	
						9,078 06
	Guelph.					
Powell, J. B.	Salary as Collector for the year	.....	.....	7 20	2,692 80	
Till, T. M.	" Deputy Collector Class "A" for the year	38 40	....	3 60	1,882 92	
Dawson, W.	" Special Class Exciseman for the year	42 00	.....	4 32	2,053 68	

Woodward, G. W.	"	"	"	7 98		1 08	390 93	
Broadfoot, S	"	Accountant for the year		31 44		4 32	1,686 24	
Spence, F. H	"	1st Class Exciseman for the year		28 41		2 88	1,393 68	
Bowman, A	"	1st "	"	28 44		2 88	1,393 68	
Egener, A	"	1st "	"	28 44		2 88	1,393 68	
O'Brien, E. C	"	2nd "	"	21 96		2 88	1,222 08	
Alteman, P. J	"	1st "	"	49 80		2 88	1,372 32	
Howie, A	"	3rd "	"	19 92		2 88	977 16	
Coutts, J. J	"	1st "	"		71 16	2 88	1,350 96	
Hanlon, J. R	"	1st "	"		59 85	2 88	1,135 98	
Martin, N	"	1st "	"		64 41	2 88	1,221 42	
Thomas, F. W	"	1st "	"		59 85	2 88	1,135 98	
		Salaries		302 82	255 27	49 32	21,303 51	
		Contingencies					1,578 02	
								22,881 53
		Hamilton.						
Miller, W. F	Salary as Collector for the year				96 24	14 40	2,685 60	
Cameron, D. M	"	Special Class Exciseman for the year				4 32	1,595 64	
Baby, W. A. D	"	" " "		24 50		4 32	2,071 18	
O'Brien, J	"	Deputy Collector Class "A" for the year				7 20	1,821 48	
Dumbrille, R. W	"	Accountant for the year		28 45		4 32	1,392 23	
O'Brien, J. F	"	Special Class Exciseman for the year		31 92		4 32	1,563 72	
Hayhurst, T. H	"	1st "	"		71 16	2 88	1,350 96	
Boyd, J. F. S	"	1st "	"	49 80		2 88	1,372 32	
Amor, W	"	2nd "	"	24 96		2 88	1,222 08	
Cheseldine, J. H	"	Special "	"		*65 28 75 00	4 32	1,355 40	
Lawlor, J. J	"	1st "	"		71 16	2 88	1,350 96	
Elliott, W. J	"	1st "	"		*29 76 62 40	2 88	1,154 88	
Kirkpatrick, H. J	"	1st "	"		59 85	2 88	1,135 98	
Beasley, M. C	"	3rd "	"		46 74	2 88	885 36	
Ballentine, A	"	2nd "	"		51 81	2 88	1,039 77	
Hiscott, J. O	"	2nd "	"		*18 64 47 07	2 88	873 83	
Blackman, C	"	Messenger for the year			39 96	2 88	757 08	
Mitchell, J. L	"	2nd Class Exciseman for the year			54 81	2 88	1,039 77	
Griffin, P. F	"	3rd "	"		43 74	2 88	828 36	
Henderson, H. G. D	"	3rd "	"		38 70	2 88	733 35	
		Salaries		159 63	875 32	80 64	26,229 95	
		Contingencies					438 77	
								26,668 72

* Insurance.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the year ending March 31, 1913.—*Continued.*

To whom paid.	Services.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Kingston.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Grimason, T.	Salary as Collector for the year	33 96		7 20	1,658 76	
Hanley, A.	" Deputy Collector Class "A" for the year	24 00		3 60	1,172 40	
Lyons, E.	" 1st Class Exciseman from April 1 to Dec. 31, 1912. Transferred to Windsor Jan. 1, 1913	21 33		2 16	1,045 26	
O'Donnell, J.	" 3rd Class Exciseman for the year	19 92		2 88	977 16	
Fahey, E.	" 3rd " " "	11 62		2 88	985 46	
Hogan, J.	" 3rd " " "		49 92	2 88	947 16	
Montgomery, W. H.	" 2nd " " "		59 79	2 88	1,134 78	
	Salaries	110 83	109 71	24 48	7,920 98	
	Contingencies				518 95	8,439 93
	London.					
Alexander, T.	Salary as Collector for the year			7 20	2,692 80	
Davis, T. G.	" Deputy Collector Class "A" for the year			3 60	1,921 32	
Thrasher, W. A.	" " " " "A" "		* 77 52 96 24	3 60	1,747 56	
Rose, J. A.	" " " "B" "		64 92	3 60	1,231 44	
Coles, F. H.	" Accountant for the year			4 32	1,720 68	
Wilson, D.	" " "	27 00		2 88	1,320 12	
Lee, E.	" 1st Class Exciseman for the year	28 44		2 88	1,393 68	
Girard, I.	" 1st " " "	28 44		2 88	1,393 68	
Boyle, P.	" 1st " " "	42 72	*71 76	2 88	1,307 64	
Foster, H.	" 1st " " "	49 80		2 88	1,372 32	
Webbe, C. E. A.	" 2nd " " "	24 96		2 88	1,222 08	
Tracy, J. P.	" 2nd " " "	24 96		2 88	1,222 08	
Talbot, J.	" 3rd " " "		49 92	2 88	947 16	
Whitehead, J. P.	" Deputy Collector Class "B" for the year		37 44	2 88	709 68	
Fiddes, J.	" " " "B" "		39 96	2 88	757 08	
Pleasance, W.	" 3rd Class Exciseman for the year		48 03	2 88	911 52	
Tytler, J. M.	" Stenographer for the year		30 60		581 88	
Farnworth, F. H.	Appointed 3rd Class Proby. Ex. from March 10 to March 31, 1913		1 77	0 17	33 54	
	Salaries	226 32	518 16	54 17	22,486 26	
	Contingencies				1,984 06	24,470 32

	Ottawa.					
Freeland, A.	Salary as Collector for the year		99 96	7 20	1,892 76	
McGuire, T.	" Deputy Collector Class "A" for the year		75 00	3 60	1,421 40	
Fox, T.	" 1st Class Exciseman for the year	16 59		2 88	1,405 53	
Bennett, J.	" Deputy Collector Class "B" for the year		59 91	2 88	1,137 16	
Laporte, G.	" " " "B" "	21 48		2 88	1,050 60	
Noonan, J. M.	" 3rd Class Exciseman for the year		45 18	2 88	856 92	
Ladouceur, A.	" Deputy Collector Class "B" for the year		9 96	2 88	187 08	
Chisholm, J. A.	" App. 3rd Class Proby. Ex. from July 1 to Dec. 31, 1912 and 3rd Class Exciseman from Jan. 1 to March 31, 1913		23 73	1 92	449 34	
	Salaries	38 07	313 74	27 12	8,400 79	
	Contingencies				915 00	9,315 79
	Owen Sound.					
Graham, W. J.	Salary as Collector for the year			3 60	1,796 40	
Johnson, J. J.	" 1st Class Exciseman for the year	28 44		2 88	1,393 68	
Chisholm, W. N.	" Deputy Collector Class "A" for the year	25 92		3 60	1,270 44	
Blyth, A.	" 1st Class Exciseman for the year		71 16	2 88	1,350 96	
Cryderman, C. W.	" Deputy Collector Class "B" for the year		45 00	2 88	852 12	
	Salaries	54 36	116 16	15 84	6,663 60	
	Contingencies				572 15	7,235 75
	Perth.					
McLenaghan, N.	Salary as Collector from April 1 to Oct. 1, 1912. Died Sept. 26, 1912		18 96	3 60	927 42	
Mason, F.	" Special Class Exciseman for the year			4 32	2,095 68	
Goodman, A. W.	" 1st Class Exciseman from April 1, 1912 to Mar. 1, 1913. Died Feb. 19, '13	26 07		2 64	1,277 54	
Noonan, H. T.	" Deputy Collector Class "A" for the year		{ *63 36 / 67 44 }	3 60	1,215 60	
Clark, T.	" " " " "B" "		45 00	2 88	852 12	
Publow, W. J.	" 3rd Class Exciseman from April 1 to Aug. 1, 1912. Died July 8, 1912		14 22	0 96	269 80	
Armstrong, T. E.	" 3rd " " for the year		43 74	2 88	828 36	
Rowan, W. E.	" Deputy Collector Class "B" for the year		27 18	2 88	519 60	
Egan, W.	" " " "B" from April 1 to Dec. 1, 1912. Died Nov. 9, '12			1 92	298 08	
Baikie, D.	" " " "B" for the year		39 96	3 60	756 36	
George, J.	" " " "B" "		19 92	2 88	377 16	
Maurice, E.	" " " "B" "		24 96	2 88	472 08	
Miller, R. M.	" Appointed 3rd Class Probationary Exciseman from April 1 to May 30, 1912, and 3rd Class from June 1, 1912 to March 31, 1913		44 13	1 20	837 97	
McNaughton, J. C.	" Deputy Collector Class "B" from March 1 to March 31, 1913. Brought from Peterborough Division, March 1, 1913		3 33	0 24	63 09	
	Salaries	26 07	442 50	*36 48	10,790 86	
	Contingencies				2,175 93	12,966 79

*Insurance.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913.—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Peterborough.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Rork, T.	Salary as Deputy Collector Class "A" for the year	.....	54 96	3 60	1,041 36	
Bickle, J. W.	" Deputy Collector Class "B" "	15 92	.....	2 88	777 94	
McNaughton, J. C.	" " " " "B" from April 1, 1912 to Feb. 28, 1913. Transferred to Perth from March 1, 1913	.....	36 63	2 64	693 99	
	Salaries	15 92	91 59	9 12	2,513 29	
	Contingencies	.....	.....	.....	1,550 25	
						4,063 54
	Port Arthur.					
Bridgman, M. W.	Salary as Collector for the year	.....	87 00	3 60	1,649 40	
Smith, B. H.	" Deputy Collector Class "A" for the year	.....	46 11	2 88	873 51	
Barnes, G.	" " " " "B" for the year	.....	32 40	2 88	614 64	
Wink, J. C.	" 3rd Class Exciseman	.....	45 00	2 88	852 12	
	Salaries	.....	210 51	12 24	3,989 67	
	Contingencies	.....	.....	.....	840 70	
						4,830 37
	Prescott.					
Melville, T. R.	Salary as Collector for the year	.....	114 96	7 20	2,177 76	
Gerald, W. H.	" Special Class Exciseman for the year	42 00	.....	4 32	2,053 68	
White, J. B.	" Deputy Collector Class "A" for the year	.....	87 48	3 60	1,658 88	
Keeler, G. S.	" 2nd Class Exciseman from April 1, 1912 to Jan. 31, 1913. Died Jan. 3, '13	20 80	.....	2 40	1,018 40	
Wood, J. A.	" Deputy Collector Class "B" for the year	.....	.....	2 88	988 74	
McPherson, E. A.	" 1st Class Exciseman for the year	.....	*140 40 †44 64 64 41	2 88	1,036 38	
Byrne, W. P.	" 3rd " " "	.....	45 48	2 88	861 60	
Granton, C.	" 3rd " " "	.....	45 00	2 88	852 12	
Bissell, C. H.	" Deputy Collector Class "B" for the year	.....	47 40	2 88	899 64	
Dunkin, W. H.	" Appointed Collector Class "B" from April 10, 1912 to March 31, 1913	.....	29 25	3 60	552 15	
	Salaries	62 80	619 02	35 52	12,099 35	
	Contingencies	.....	.....	.....	1,097 64	
Annual license.						13,196 99

		St. Catharines.					
Hesson, C. A	Salary as Collector for the year	31 92		3 60	1,564 44		
Johnston, H. J	" Deputy Collector Class "A" for the year		54 96	2 88	1,042 08		
Milliken, E	" 2nd Class Exciseman for the year			2 88	1,247 04		
Schram, R. L. H	" 2nd " " "	43 68		2 88	1,203 36		
Simpson, W. A	" 1st " " "		71 16	2 88	1,350 96		
	Salaries	75 60	126 12	15 12	6,407 88		
	Contingencies				326 12		
						6,734 00	
	Stratford.						
Rennie, G	Salary as Collector for the year	3 33		7 20	1,989 39		
Tobin, T. S	" Deputy Collector Class "A" for the year		*97 92 / 75 00	3 60	1,323 48		
Hicks, W. H	" " "B" "	22 98		2 88	1,121 13		
Young, R. E	" 1st Class Exciseman "		*74 16 / 71 16	2 88	1,276 80		
Jeffrey, A. J	" Accountant "		*101 52 / 61 20	4 32	1,057 92		
Dalton, M. J	" Deputy Collector Class "B" "		49 92	3 60	946 44		
Relihan, J	" " " "A" "		4 92	3 60	91 44		
	Salaries	26 31	535 80	28 08	7,809 60		
	Contingencies				453 98		
						8,263 58	
	Toronto.						
Frankland, H. R	Salary as Collector for the year		*113 04 / 135 00	14 40	2,437 56		
Gerald, C	" Special Class Exciseman for the year	24 50		4 32	2,071 18		
Boomer, J. B	" Accountant "	34 44		4 32	1,686 24		
Mackenzie, J. H	" Deputy Collector Class "A" "		96 24	3 60	1,825 08		
Boyd, S. I	" " "B" from April 1 to December 31, 1912. Died December 18, 1912	18 72		2 16	916 56		
Evans, G. T	" Special Class Exciseman from April 1, 1912, to February 20, 1913. Promoted to District Inspector February 21, 1913	29 26		3 96	1,433 41		
Jamieson, R. C	" Special Class Exciseman for the year	33 96		4 32	1,661 65		
Shanacy, M	" Deputy Collector Class "B" for the year	21 96		2 88	1,075 08		
Elliott, T. H	" " " "B" "		*41 76 / 61 66	2 88	1,127 03		
Coleman, C	" " " "B" "	21 96		2 88	1,075 08		
Helliwell, H. N	" 1st Class Exciseman "	28 44		2 88	1,393 68		
O'Leary, T. J	" 1st " " "	28 44		2 88	1,393 68		
Graham, W. T	" Special Class Exciseman "	30 00		4 32	1,465 68		
Doyle, B. J	" " " "	28 92		1 32	1,416 72		
Cook, W. R	" 1st Class Exciseman "	28 44		2 88	1,393 68		
Howard, W. W. S	" 1st " " from April 1 to Nov. 1, 1912. Services dispensed with	12 81		1 68	627 13		
Hurst, L. B	" Special Class Exciseman for the year	31 92		4 32	1,563 72		
Barber, J. S	" 2nd Class " "	24 96		2 88	1,222 08		

* Insurance. † Annuity.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913.—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Toronto—Con.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Dager, H. J.	Salary as Deputy Collector Class "B" for the year		49 92	2 88	947 16	
Coulter, A.	" Accountant "	51 60		2 88	1,420 44	
Ritchie, H.	" " "		71 16	7 20	1,346 64	
Jones, A.	" 3rd Class Exciseman "	19 92		2 88	977 16	
Falconer, R. H.	" 1st " " "		71 16	2 88	1,350 96	
Graham, A. L.	" Special Class Exciseman "		75 00	4 32	1,420 68	
Burns, R. J.	" " " "		75 00	4 32	1,420 68	
Gillies, A. L.	" 1st Class " "		71 16	2 88	1,350 96	
Walsh, W. H.	" 1st " " "		66 93	2 88	1,268 94	
Oliver, J. T.	" 2nd " " "		*49 92 54 81	2 88	989 85	
Sykes, W. J.	" 2nd " " "		53 70	2 88	1,018 38	
Dunbar, G. E.	" 1st " " "		58 68	2 88	1,113 36	
Shorey, A. B.	" 3rd " " "		43 74	2 88	828 36	
Young, J. J.	" 2nd " " "		*19 92 48 54	2 88	901 08	
Eakins, G. G.	" 3rd " " "		38 70	2 88	733 35	
Johnston, E. J. A.	" 3rd Class Exciseman from April 1 to December 31, 1912, and 2nd Class from January 1 to March 31, 1913		47 49	2 88	899 61	
Abbott, H. F.	" 2nd Class Exciseman for the year		46 11	2 88	873 51	
Mackay, J. C.	" 3rd Class Probationary from April 1 to September 15, 1912, and 3rd Class September 16, 1912, to March 31, 1913		32 67	2 88	618 60	
Fielding, L. G.	" Stenographer for the year		34 92		665 04	
Mather, A. P.	" 3rd Class Exciseman for the year		49 94	2 16	947 87	
Sloan, J. B.	" Messenger from August 1, 1912, to March 31, 1913		16 63	1 92	314 73	
	Salaries	470 25	1,523 80	135 00	47,192 60	
	Contingencies				4,086 87	
						51,279 47
	Windsor.					
McSween, J.	Salary as Collector for the year	31 50		14 40	2,654 10	
Bouteiller, G. A.	" Special Class Exciseman for the year	42 00		4 32	2,053 68	
Marion, H. R.	" Deputy Collector Class "A" for the year		96 24	7 20	1,821 48	
Dunlop, C.	" " " "B" "			3 60	1,471 34	
Brennan, J.	" Special Class Exciseman for the year	31 92		4 32	1,563 72	
Belleperche, A. J. E.	" Accountant for the year		86 16	4 32	1,634 52	

Keogh, P. M.	"	Deputy Collector Class "B" for the year	22 98		3 60	1,123 41	
Thomas, R.	"	1st Class Exciseman for the year	28 44		2 88	1,393 68	
Bayard, G. A.	"	1st " " "	28 44		2 88	1,393 68	
Brain, A. F.	"	1st Class Exciseman from April 1 to June 30, 1912, and Promoted Inspector of Distilleries from July 1, 1912	12 85		0 74	354 15	
Berry, H. L.	"	1st Class Exciseman for the year		*74 16 71 16	2 88	1,276 80	
Falconer, J.	"	3rd " " "	11 62		2 88	985 46	
Cahill, J. W.	"	3rd " " "	19 92		2 88	977 16	
Neil, J.	"	1st " " "		71 16	2 88	1,350 96	
Beneteau, S.	"	1st " " "		71 16	2 88	1,350 96	
Adam, A. R.	"	3rd " " "		*84 96 49 92	2 88	862 20	
Love, G. G.	"	2nd " " "		59 79	2 88	1,134 78	
Bergeron, R. J.	"	3rd " " "		*24 96 47 40	2 88	874 68	
Mooney, G. B.	"	2nd " " from April 1 to Aug. 1, 1912. Transferred to Calgary Sept. 1, 1912		22 19	1 20	420 76	
Cummiford, F. D.	"	3rd Class Exciseman for the year		*56 16 45 18	2 88	800 76	
Morforton, E. R.	"	3rd " " "		39 96	2 88	757 08	
Niven, T. D.	"	3rd " " "		37 44	2 88	709 62	
Bezaire, T. M.	"	3rd " " "		31 92	2 88	662 16	
Lane, T. M.	"	Accountant Brought from Quebec Sept. 1, 1912 and Special Class from Nov. 1, 1912 to Mar. 31, 1913	17 50		2 28	855 22	
Moynahan, J.	"	App. 3rd Class Proby. Ex. from Dec. 17, 1912 to Mar. 31, 1913		8 70	0 83	164 66	
Ivry, J.	"	" " Dec. 1, 1912 to Mar. 31, 1913		10 00	0 72	189 28	
Lyons, E.	"	1st Class Exciseman from Jan. 1 to Mar. 31, 1913. Brought from Kingston	7 11		0 72	348 42	
		Salaries	254 28	991 62	88 57	29,184 72	
		Contingencies				3,050 57	
							32,235 29
		Joliette.					
Labelle, L. V.	Salary as Collector from April 1 to Aug. 1, 1912. Services dispensed with Aug. 1, 1912			36 74	1 32	776 59	
Gamache, J. N.	"	Deputy Collector Class "B" for the year		*35 04 81 75	3 60	1,515 78	
Snowden, J. W.	"	Special Class Exciseman for the year		90 00	4 32	1,705 68	
Normandin, G.	"	1st Class Exciseman for the year		71 16	2 88	1,350 96	
Olivier, H.	"	3rd " " "		49 29	2 88	935 28	
Bourgeois, C.	"	3rd " " "		3 70	0 24	70 22	
Gariépy, L. N.	"	2nd " "		54 81	2 88	1,039 77	
Richard, J. B. T.	"	Deputy Collector Class "B" for the year		12 48	3 60	233 88	
Mainville, C. P.	"	App. Collector at Joliette from Nov. 1912 to Mar. 31, 1913	15 80		2 25	773 60	
Olivier, J. A.	"	App. Proby. Exciseman from Dec. 1 to Mar. 31, 1913		10 00	0 72	189 28	
		Salaries	15 80	444 97	24 69	8,591 04	
		Contingencies				4,975 38	
							13,566 42

*Insurance.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee	Amounts paid.	Total amounts paid.
	Montreal.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Caven, W.	Salary as Collector for the year	45 96		14 40	2,239 56	
Bernier, J. A.	" Deputy Collector Class "A" for the year		87 48	7 20	1,655 28	
Hudon, M. L. E.	" " " "	64 89		7 20	1,784 16	
Forest, E. R.	" Accountant " "	30 00		7 20	1,462 80	
Fox, J. D.	" " " "	34 44		4 32	1,686 24	
Walsh, D. J.	" Special Class Exciseman "	39 96		4 32	1,955 64	
Scullion, W. J.	" 1st " "	28 44		2 88	1,393 68	
Chagnon, C. P.	" Deputy Collector Class "B" "		60 00	7 20	1,132 80	
Dumouchel, L.	" 2nd Class Exciseman "	24 96		2 88	1,222 08	
Courtney, J. J.	" 2nd " "	24 96		2 88	1,222 08	
Dixon, H. G. S.	" 2nd " "	24 96		2 88	1,222 08	
Andrews, A. A.	" 2nd " "	43 68		2 88	1,203 36	
Codd, H. J. S.	" 2nd " "	24 96		2 88	1,222 08	
Renaud, A. H.	" Deputy Collector Class "B" "	49 80		2 88	1,372 32	
Desaulniers, J. E. A.	" 1st Class Exciseman "		71 16	2 88	1,350 96	
Laurier, J. L.	" 2nd " "		*83 22 62 40	2 88	1,101 42	
Millier, E.	" 3rd " "	19 92		2 88	977 16	
Panneton, G. E.	" 3rd " "	19 92		2 88	977 16	
Costigan, J. J.	" 3rd " "	19 92		2 88	977 16	
Brabant, J. B. G. N.	" 2nd " "	24 96		2 88	1,222 08	
Bélair, A. P.	" 3rd " "	19 92		2 88	977 16	
Mainville, C. P.	" 3rd Class Exciseman from April 1 to Oct. 31, 1912 and Transferred to Joliette as Collector, Nov. 1, 1913	11 62		1 68	570 01	
Davelny, J. P.	" 3rd Class Exciseman for the year		49 92	2 88	947 16	
Comte, L. A. A. J.	" 2nd " from April 1 to Aug. 31, 1913. Suspended from Sept. 1, 1912 and re-instated from Jan. 18 to Mar. 31, 1913	37 32		2 88	631 23	
Kearney, D. J.	" Special Class Exciseman for the year		75 00	4 32	1,420 68	
Bousquet, J. G.	" 1st " "		*56 48 71 16	2 88	1,294 48	
Lambert, J. A.	" 2nd " "		62 40	2 88	1,184 64	
Maranda, N. A.	" 3rd " "		49 92	2 88	947 16	
Harwood, J. O. A.	" 1st " "		*42 48 62 40	2 88	1,142 16	
Patterson, C. E. A.	" Deputy Collector Class "B" for the year		47 40	3 60	898 92	

Marin, L. H.	"	3rd Class Exciseman	"			49 92	2 88	947 16	
McGuire, L. J.	"	1st "	"			63 12	2 88	1,197 75	
St. Michel, F. X.	"	Deputy Collector Class "B"	"			24 96	3 60	471 36	
Lamoureux, J. A.	"	2nd Class Exciseman	"			62 40	2 88	1,184 64	
Crevier, J. H.	"	3rd "	"			49 92	2 88	947 16	
Longtin, H.	"	1st "	"			66 93	2 88	1,268 94	
Thurber, G.	"	3rd "	"			47 94	2 88	909 12	
Graveline, D. P.	"	3rd "	"			45 00	2 88	852 12	
David, T.	"	1st "	"			66 93	2 88	1,268 94	
O'Donnell, M. J.	"	Messenger	"			39 96	2 88	757 08	
Milot, J. F.	"	1st Class Exciseman	"			62 40	2 88	1,184 64	
Lespérance, J. A.	"	2nd "	"			54 81	2 88	1,039 77	
Gervais, J. A.	"	3rd "	"			* 33 12 45 00	2 88	819 00	
Robillard, G. A.	"	3rd "	"			45 00	2 88	852 12	
Bousquet A.	"	Stenographer and Typewriter	"			23 07		439 41	
Marin, N. H.	"	2nd Class Exciseman from April 1 to May 1, 1912. Died April 6, 1912				4 16	24	78 93	
	"	Deputy Collector Class "B" from April 16, 1912 to Mar. 31, 1913				43 27	3 45	819 89	
Lefebvre, A.	"	3rd Class Probationary Exciseman from Oct. 1, 1912 to Mar. 31, 1913				15 00	1 44	283 56	
Boucher, A.	"	3rd " from Sept. 28, 1912 and Confirmed as							
Mantha, J. A.		3rd Class Exciseman from March 1 to Mar. 31, 1913				17 91	1 44	338 98	
Jonbert, P. E. C.	"	3rd Class Probationary Exciseman from Oct. 20, 1912 to Mar. 31, 1913				30 67	1 20	582 35	
		Salaries		590 59	1,772 91		167 85	53,636 62	
		Contingencies						11,302 87	
									64,939 49
		Quebec.							
Arcand, D.	Salary as Collector for the year					124 92	7 20	2,367 84	
Cahill, J. H.	"	Deputy Collector Class "A" from April 1 to Oct. 31, 1912. Superannuated Nov. 1, 1912					2 10	1,120 77	
Patry, J. H.	"	Deputy Collector Class "A" for the year				80 20	3 00	1,520 90	
Lane, T. M.	"	Accountant from April 1 to Aug. 31, 1912. Transferred to Windsor Sept. 1, 1912		12 50			1 20	611 30	
Coleman, J. J.	"	1st Class Exciseman for the year		28 44			2 88	1,393 68	
LaRue, A.	"	Deputy Collector Class "B" for the year		41 93			3 60	1,164 41	
Bourget, O.	"	2nd Class Exciseman for the year		23 88			2 88	1,170 69	
Lemoine, J.	"	3rd " "		19 92			2 88	977 16	
Beaulieu, J. B.	"	3rd " "		34 92			2 88	962 16	
Bergeron, E. L.	"	2nd " from April 1 to Dec. 31, 1912, and 1st Class Exciseman from Jan. 1 to Mar. 31, 1913				47 49	2 88	899 61	
Pelletier, N. G.	"	Deputy Collector Class "B" for the year				23 31	2 10	441 21	
Filteau, J. R.	"	3rd Class Exciseman for the year				42 48	2 88	804 60	
Timmons, R.	"	Accountant from April 1 to Oct. 31, 1912, and Deputy Collector Class "A" from Nov. 1, 1912, to Mar. 31, 1913				75 59	4 77	1,432 10	
Murray, D.	"	1st Class Exciseman from April 1, 1912, to Feb. 28, 1913, and Special Class from Mar. 1 to Mar. 31, 1913		28 73			3 00	1,407 85	
Rouleau, C. E.	"	3rd Class Exciseman for the year				46 92	2 88	890 16	

* Insurance.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the year ended March 31, 1913.—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Quebec—Con.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Martineau, O. E. J.	Salary as 2nd Class Exciseman for the year	.....	{ *15 10 / 54 81 }	2 88	1,024 67	
Poitras, W.	" 2nd " "	.....	54 81	2 88	1,039 77	
Mercier, C. A.	" Unclassified from Dec. 1, 1912, to Mar. 31, 1913	.....	16 64	0 96	315 72	
	Salaries	190 32	582 27	53 85	19,534 60	
	Contingencies	.....	.....	.....	8,246 33	
						27,780 93
	St. Hyacinthe.					
Benoit, L. V.	Salary as Collector for the year	.....	{ *58 56 / 99 96 }	7 20	1,834 20	
Macdonald, A. B.	" Special Class Exciseman for the year	36 00	.....	4 32	1,759 68	
Langelier, F.	" Deputy Collector Class "B" for the year	.....	73 23	3 60	1,389 42	
Bernard, N. J. D.	" 1st Class Exciseman for the year	.....	{ *137 04 / 71 16 }	2 88	1,213 92	
Deland, A. N.	" Deputy Collector Class "B" from April 1 to Oct. 31, 1912. Services dispensed with Nov. 1, 1912	.....	26 25	2 10	496 65	
Dumaine, J. D.	" 1st Class Exciseman for the year	.....	{ *54 48 / 68 37 }	2 88	1,243 02	
Rouleau, J. C.	" 1st " "	.....	{ *13 68 / 68 37 }	2 88	1,283 82	
Gauvin, E.	" 1st " "	.....	62 40	2 88	1,184 64	
Francœur, A.	" Deputy Collector Class "B" for the year	.....	45 00	2 88	852 12	
Gilbert, A.	" " " from Aug. 1, 1912, to Mar. 31, 1913	.....	26 64	1 92	504 72	
Archambault, F. X.	" " " from Nov. 7, 1912, to Mar. 31, 1913	.....	13 97	1 15	264 86	
	Salaries	36 00	819 11	34 69	12,027 05	
	Contingencies	.....	.....	.....	3,255 56	
						15,282 61

		Sherbrooke.					
Simpson, A. F.	Salary as Collector for the year		42 00		7 20	2,050 80	
Quinn, J. D.	"	Special Class Exciseman for the year	31 92		4 32	1,563 72	
Chartier, E.	"	Deputy Collector Class "A" for the year		76 20	3 60	1,445 16	
Bowen, F. C.	"	3rd Class Exciseman for the year		49 92	2 88	947 16	
De Grosbois, C. B.	"	2nd " "		54 81	2 88	1,039 77	
Rousseau, E. H.	"	Deputy Collector Class "B"		44 16	3 60	835 56	
		Salaries	73 92	225 09	24 48	7,882 17	
		Contingencies				821 92	
							8,704 09
		Three Rivers.					
Hébert, C. D	Salary as Collector for the year		31 92		3 60	1,564 44	
Duplessis, C. Z.	"	Deputy Collector Class "B" for the year	19 92		3 60	976 44	
Anger, L. H.	"	3rd Class Exciseman for the year		49 29	2 88	935 28	
Dontigny, H.	"	Deputy Collector Class "B" for the year		6 18	1 80	117 00	
		Salaries	51 84	55 47	11 88	3,593 16	
		Contingencies				1,010 88	
							4,604 04
		St. John, N.B.					
Belyea, T. H.	Salary as Collector for the year		39 96		7 20	1,952 76	
Clark, J. A.	"	Deputy Collector Class "A" for the year	30 00		3 60	1,166 40	
McCloskey, J. R.	"	Special Class Exciseman from April 1, 1912, to March 1, 1913. Died February 15, 1913	29 26		3 96	1,133 41	
Fitzpatrick, W. J.	"	1st Class Exciseman for the year	28 44		2 88	1,393 68	
Geldart, O. A.	"	Special " "	31 92		4 32	1,563 72	
Ferguson, J. C.	"	1st " "	28 44		2 88	1,393 68	
McGowan, J.	"	1st " "		61 41	2 88	1,221 42	
Dwyer, D. T.	"	Deputy Collector Class "B" for the year		9 96	3 60	186 36	
Casey, F. J.	"	2nd Class Exciseman "		51 81	2 88	1,039 77	
Farmer, R. C.	"	3rd " "		51 81	2 88	1,039 77	
		Salaries	188 02	183 99	37 08	12,690 97	
		Contingencies				686 02	
							13,376 99
		Halifax					
Grant, H. H.	Salary as Collector for the year		45 96		7 20	2,246 76	
King, R. M.	"	Deputy Collector Class "A" for the year	33 96		3 60	1,662 36	
James, F. C.	"	Accountant "	28 44		4 32	1,392 24	
Carroll, D.	"	1st Class Exciseman "	16 59		2 88	1,105 53	
Blethen, C. W.	"	1st " "	28 44		2 88	1,393 68	
Hubley, H. H.	"	1st " "	28 44		2 88	1,393 68	
Gorman, A. M.	"	1st " "	28 44		2 88	1,393 68	
Pompkins, P.	"	3rd " "	19 92		2 88	977 16	
Munro, H. D.	"	3rd " "	19 92		2 88	977 16	
Waddell, S. J.	"	Deputy Collector Class "B" "		22 44	3 60	423 96	
		Salaries	250 11	22 44	36 00	13,266 21	
		Contingencies				259 78	
							13,525 99

* Insurance.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913.—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Pictou.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Fraser, P.	Salary as Collector for the year	27 96	.....	3 60	1,368 36	
Macdonald, A. J.	" Deputy Collector Class "B" for the year	.....	45 00	2 88	852 12	
Carroll, F. P.	" 3rd Class Exciseman "	.....	49 92	2 88	947 16	
	Salaries	27 96	94 92	9 36	3,167 64	
	Contingencies	.....	.....	.....	367 71	
						3,535 35
	Charlottetown.					
Moore, T	Salary as Collector for the year	.....	.....	3 60	1,371 33	
Weeks, W. A.	" Deputy Collector Class "A" for the year	.....	47 79	2 88	905 58	
Doyle, S. F.	" Probationary 3rd Class Exciseman Sept. 1, 1912, to March 31, 1913	.....	17 91	1 68	338 74	
	Salaries	.....	65 70	8 16	2,615 65	
	Contingencies	.....	.....	.....	127 31	
						2,742 96
	Winnipeg.					
Gosnell, T. S.	Salary as Collector for the year	31 50	.....	7 20	2,661 30	
Code, A.	" Deputy Collector Class "A" for the year	38 40	.....	3 60	1,882 92	
Long, W. H. A.	" Accountant "	.....	82 23	4 22	1,559 70	
McArthur, G. H.	" Special Class Exciseman "	.....	84 96	4 22	1,610 64	
Verner, T. H.	" 1st " "	49 80	*77 52	2 88	1,294 80	
Larivière, A. C.	" 1st " "	49 80	.....	2 88	1,372 32	
Sparling, J. W.	" Deputy Collector Class "B" "	.....	54 96	2 88	1,042 08	
Earl, R. W.	" " " "	.....	67 17	2 88	1,273 62	
Hammond, T. W.	" 2nd Class Exciseman "	.....	54 81	2 88	1,039 77	
Morris, T. H.	" 3rd " "	.....	47 94	2 88	909 12	
Forsyth, D.	" 2nd " "	.....	55 89	2 88	1,059 90	
Nicholl, F. A.	" 2nd " "	.....	41 22	2 88	780 84	
Currie, W. W.	" 2nd " "	.....	46 11	2 88	873 51	
Ivey, W. J.	" 2nd " "	.....	38 70	2 88	733 35	
Greig, W. G.	" 2nd " "	.....	46 11	2 88	873 51	
McNiven, D. J.	" Deputy Collector Class "B" "	.....	19 92	2 88	377 16	
Barrett, J. P.	" " "	.....	45 00	3 60	851 40	

Fegan, P. J.	"	Probationary 3rd Class Exciseman from July 1 to Dec. 31, 1912, and 3rd Class Exciseman January 1 to March 31, 1913		23 73	1 92	449 34	
			169 50	786 27	59 52	20,645 28	
		Salaries				3,637 57	
		Contingencies					21,282 5
		Calgary.					
Saucier, X.	Salary as Collector from April 1 to May 31, 1912 and District Inspector from June 1, 1912		6 52		0 60	319 54	
Fletcher, R. W.	"	Deputy Collector Class "A" from April 1, to May 31, 1912, and collector from June 1, 1912, to March 31, 1913		82 12	3 60	1,557 54	
Withinshaw, E.	"	" " "B" from April 1 to July 31, 1912. Services dispensed with Aug. 1, 1912		20 00	1 44	378 56	
Wood, C. T.	"	Deputy Collector Class "B" for the year		57 46	3 60	1,088 93	
Bruce, G. B.	"	3rd Class Exciseman for the year		30 00	1 92	568 08	
Walker, J. H.	"	Deputy Collector Class "B" for the year		15 00	2 88	282 12	
Fidler, H.	"	3rd Class Exciseman for the year		38 70	2 88	733 35	
Richardson, W.	"	Deputy Collector Class "B" from Aug. 1, 1912 to March 31, 1913		40 00	1 92	758 08	
Mooney, G. B.	"	2nd Class Exciseman from Sept. 1, 1912 to March 31, 1913. Brought from Windsor Sept. 1, 1912		32 62	1 68	619 01	
Bathram, E. D.	"	Proby. 3rd Exciseman from Dec. 1, 1912 to Jan. 31, 1913. Resigned Feb. 1, 1913		5 00	0 24	94 76	
		Salaries	6 52	320 90	20 76	6,399 97	
		Contingencies				5,797 64	12,197 61
		Moose Jaw.					
Conklin, W. M.	Salary as Collector for the year			89 22	3 60	1,692 18	
Goudie, D. A.	"	Deputy Collector Class "B" for the year		45 00	3 60	851 40	
Pitman, C.	"	" " "B" from April 1 to May 5, 1912. Resigned May 6, 1912		3 82	0 31	73 21	
Ross, H. E.	"	Deputy Collector Class "B" for the year	11 88		2 88	385 20	
Jameson, S. B.	"	" " "B" "	11 88		2 88	385 20	
MacGregor, D. N.	"	" " "B" from May 13, 1912 to March 31, 1913		42 86	3 18	811 48	
		Salaries	23 76	180 90	16 48	4,198 67	
		Contingencies				2,889 50	7,088 17
		Vancouver.					
Parkinson, E. B.	Salary as Collector for the year			109 92	7 20	2,082 84	
Power, J. F.	"	Deputy Collector Class "A" for the year		83 64	4 32	1,587 00	
Allen, G. A.	"	Special Class Exciseman for the year	42 00		4 32	2,053 68	
Scanlan, T. J.	"	Deputy Collector Class "B" for the year		64 92	3 60	1,231 44	
Wolfenden, W.	"	" " "B" "		52 47	3 60	993 87	
Thorburn, Jas.	"	Accountant for the year		*56 16 68 64	4 32	1,215 84	
McCutcheon, H.	"	Deputy Collector Class "B" "		34 92	3 60	661 44	

* Insurance.

APPENDIX B.—No. 1.—Details of Excise Expenditures for the year ending March 31, 1913.—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee.	Amounts paid.	Total amount paid.
	Vancouver—Con.	$ cts.	$ cts	$ cts.	$ cts.	$ cts.
Howell, T	Salary as Deputy Collector Class "B" for the year		27 48	3 60	518 88	
Deeley, F	" 1st Class Exciseman for the year		64 41	2 88	1,221 42	
Gray, R. S	" Deputy Collector Class "B" for the year		49 92	2 88	947 16	
Morgan, E. J	" 2nd Class Exciseman for the year		47 07	2 88	892 47	
MacDonald, G	" 2nd " " "		*44 64	2 88	828 87	
Simpson, G	" 2nd Class Ex. from April 1 to Dec. 31, 1912 and 1st Class Ex. from Jan. 1 to March 31, 1913		46 11			
			*51 36	2 88	848 25	
			47 49			
Sutherland, W	" 2nd Class Exciseman for the year		46 11	2 88	873 51	
Keay, W. S	" Deputy Collector Class "B" for the year		60 00	3 60	1,136 40	
Hambly, A. E	" " " "B" "		12 48	3 60	233 88	
Chilver, F. W	" 1st Class Exciseman for the year		*18 72	2 88	1,332 24	
			71 16			
Grigor, R. W	" Deputy Collector Class "B" for the year		49 92	3 60	946 41	
Gilpin, R. R	" " " "B" "		12 48	1 80	235 68	
Campbell, A. E	" " " "B" "		9 96	3 60	186 36	
Jephson, W. J	" " " "B" from Nov. 16, 1912 to March 31, 1913		14 99	1 08	283 91	
	Salaries	42 00	1,144 97	72 00	20,341 58	
	Contingencies				5,634 43	
						25,976 01
	Victoria.					
Jones, R	Salary as Collector for the year	39 96		7 20	1,952 76	
O'Sullivan, D	" Deputy Collector Class "A" for the year	52 44		3 60	1,443 96	
Ridgman, A. H	" 1st Class Exciseman for the year	49 80		2 88	1,372 32	
Huggett, A. P	" 2nd " " "		54 81	2 88	1,039 77	
Shaw, J	" Deputy Collector Class "B" for the year		32 40	3 60	613 92	
Clements, R. S	" Proby 3rd Class Exciseman from July 1 to Dec. 31, 1912 and Confirmed 3rd Class from Jan. 1 to March 31, 1913		23 73	1 92	449 31	
	Salaries	142 20	110 94	22 08	6,872 07	
	Contingencies				1,993 00	
						8,865 07
	Yukon.					
Macdonald, J. F	Salary as Collector for the year		50 00	7 20	942 80	
						942 80

* Insurnace.

APPENDIX B.—No, 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Guarantee	Amounts paid.	Total amounts paid.
	DISTRICT INSPECTORS.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
	Ontario.					
Dingman, N. J.	Salary for the year			5 25	2,794 75	
	Contingencies				524 60	
						3,319 35
Evans, G. T.	Salary from Feb. 21 to March 31, 1913	3 52		75	171 91	
						171 91
Stratton, W. C.	Salary from April 1 to Nov. 1, 1912. Died Oct. 17, 1912			5 25	1,628 06	
	Contingencies				195 14	
						1,823 20
Gow, J. E.	Salary for the year	41 49		9 00	2,171 49	
	Contingencies				687 19	
						2,858 68
	Quebec.					
Toupin, J. A.	Salary for the year	56 00		9 00	2,735 00	
	Contingencies				272 15	
						3,007 15
Dumontier, J. A.	Salary for the year		125 00	9 00	2,366 00	
	Contingencies				395 54	
						2,761 54
	New Brunswick.					
Burke, T.	Salary for the year	56 00		8 25	2,735 75	
	Contingencies				96 80	
						2,832 55
	Manitoba.					
Barrett, J. K.	Salary for the year			9 00	2,791 00	
	Contingencies				1,496 75	
						4,287 75
	Calgary.					
Saucier, F. X.	Salary from June 1, 1912 to March 31, 1913	33 30		7 50	1,625 80	
	Contingencies				1,154 10	
						2,779 90
	British Columbia.					
Miller, J. E.	Salary for the year	56 00		9 00	2,735 00	
	Contingencies				1,754 40	
						4,489 40
	Inspector of Tobacco Factories.					
Lawlor, H.	Salary for the year	62 00			3,038 00	
	Contingencies				1,031 84	
						4,069 84
	Inspector of Distilleries.					
Brain, A. F.	Salary from July 4, 1912 to March 31, 1913	62 32			1,718 32	
	Contingencies				648 97	
						2,367 29
	Inspector of Bonded Factories.					
Stratton, W. C.	Salary for the year				175 00	
	Contingencies				39 30	
						214 30
	Inspector of Malt Houses and Breweries.					
Barrett, J. K.	Salary for the year				300 00	
	Contingencies				1,216 30	
						1,516 30

APPENDIX B.—No, 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Excise Contingencies.	$ cts.	$ cts.
American Bank Note Co.	To pay for stamps and labels supplied	119,676 68	
British American Bank Note Co	To pay for bottling labels supplied	13,821 50	
Pritchard & Andrews Co. Ltd, The	Pads, rollers, daters, stamps and general repairs	265 40	
Carson, Hugh	Trunks and repairs	82 25	
Collector of Customs	Duty paid on imported goods	36 55	
Thornton & Truman	Making keys and general repairs	84 70	
Burrows Stewart Milne Co, Ltd	Repairing tobacco scale	2 65	
Oertling, L.	Repairing, gilding and verifying hydrometers	484 52	
Lymans, Ltd	Four dozen burners	28 80	
Delfosse, E. H	Extra services from Oct. 19 to Nov. 19, 1912	43 85	
Renaud, G.	For staying steel plates	5 00	
Bourne, J. B	" "	5 00	
Burnside, W	12 weights for balances	3 60	
McKinley & Northwood	24 tobacco ovens and one large tray	355 00	
Pinhey & Co	Brokerage on customs entries	1 00	
Scales, Mrs. C	Cleaning storerooms, &c for the year	313 00	
Canadian Express Co	Express charges	0 91	
Dominion Express Co	"	5 92	
Himsworth, W	" cartage, &c	148 06	
Laframboise, L	Technical translation	9 73	
	Total		135,374 12
	Law Costs.		
Grenier, A. W.	Law costs in *re* Rex *vs* Geo. Viens	$ 20 00	
	" " "	40 00	
	" " G. L. J. Tremblay	35 00	
	" " Paul Sauriol	29 60	
		124 60	
Abbott, J. L. G.	" " Kong Fong	10 00	
	" " "	10 00	
	" " "	10 00	
		30 00	
O'Connor, Isbister & Martin	" " H. Cohen	163 00	
Baird, W. J	" " Tai Dock	10 00	
	" " Joe Kim	10 00	
	" " Wah Kee	10 00	
		30 00	
	" " C. F. Cligton	10 00	
	" " "	20 00	
		30 00	
Nantel & Gallagher	" " D. Wolfe	45 20	
	Total amount law costs		422 80

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APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913.—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Provisional Allowance paid during the year.	$ cts.	$ cts.
Gosnell, T. S. ..... Winnipeg.	To pay Forsyth, D. F.	124 92	
	" Hammond, T. W.	124 92	
	" Earl, R. W.	124 92	
	" Verner, T. H.	124 92	
	" Sparling, J. W.	124 92	
	" Morris, T. H.	150 00	
	" Nichol, F. A.	150 00	
	" Currie, W. W.	150 00	
	" Ivey, W. J.	150 00	
	" Greig, W. G.	150 00	
	" Barrett, J. P.	150 00	
	" Levêque, J. T.	103 22	
	" Davis, T. J.	150 00	
	" Ashton, H.	150 00	
	" Fegan, P. J.	150 00	
	" Vineburg, D.	150 00	
	" Johnson, J. D.	150 00	
	" Code, A.	99 96	
	" Long, W. H.	99 96	
	" McArthur, G. H.	99 96	
	" Larivière, A. C.	99 96	
	" McNiven, J. D.	50 02	
Fletcher, R. W. ..... Calgary.	" Belanger, A.	37 50	
	" Foucar, H.	50 00	
	" McKenty, J.	50 00	
	" Gray, W. B.	50 00	
	" Sobey, R. E.	50 00	
	" Schofield, J. H.	45 87	
	" Libbey, J. J.	68 75	
	" Walker, J. H.	75 00	
	" Saucier, X.	100 00	
	" Fletcher, R. W.	100 00	
	" Withenshaw, E.	41 64	
	" Wood, C. T.	125 00	
	" Bruce, G. B.	100 00	
	" Fidler, H.	150 00	
	" Dalgetty, J.	150 00	
	" Davies, W. E.	150 00	
	" Battrum, E. D.	95 41	
	" Mooney, G. B.	71 52	
	" Richardson, Wm.	83 33	
Conklin, W. M. ..... Moose Jaw.	" Davis, D. R.	41 60	
	" McGowan, W. J. H.	50 00	
	" Edmunson, R. W.	50 00	
	" Panton, A. M.	75 00	
	" Jamieson, S. B.	83 30	
	" Conklin, W. M.	100 00	
	" Ross, H. E.	125 00	
	" Lowe, W. C.	150 00	
	" Pitman, C.	16 20	
	" Goudie, D. I.	150 00	
	" MacGregor, D. N.	115 05	
Parkinson, E. B. ..... Vancouver.	" Armstrong, F.	4 92	
	" Macdonald, G.	150 00	
	" Simpson, G.	150 00	
	" Morgan, E.	150 00	
	" Sutherland, W.	150 00	
	" Gibson, J. F.	150 00	
	" Carmichael, D.	150 00	
	" Gray, R. S.	124 92	
	" Scanlan, T. J.	124 92	

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913.—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Provisional Allowance paid during the year.	$ cts.	$ cts.
Parkinson, E. B	Pay to Keay, W. S	124 92	
Vancouver.	" Chilver, F. W	124 92	
	" Wolfenden, W	124 92	
	" Thorburn, J	124 92	
	" Deeley, F	124 92	
	" Parkinson, E. B	99 96	
	" Power, J. F	99 96	
	" Allen, G. A	99 96	
	" Howell, T	75 00	
	" Grigor, R. W	75 00	
	" Atkins, B. R	75 00	
	" Delahay, W	50 04	
	" Leishman, A	50 04	
	" Bailey, E. R	45 12	
	" Jephson, J	56 25	
O'Sullivan, D	" Clements, R. S	150 00	
Victoria.	" Hall, F. J	25 00	
	" Johnson, Geo	150 00	
	" Huggett, A. P	125 00	
	" Ridgman, A. H	125 00	
	" Shaw, John	125 00	
	" O'Sullivan, D	100 00	
	" Jones, R	100 00	
	" Robinson, W	125 00	
	Total		8,908 54

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Place of Residence.	Service.	Amounts paid	Total amounts paid.
		Commission to Customs officers.	$ cts.	$ cts.
Brimacombe, W. A.	Vermilion, Alta.	From April 1, 1911 to March 31, 1912	121 42	
Munro, H. P.	Taber, Alta.	" " "	146 40	
White, H	Cranbrook, B.C.	" " "	346 40	
Glass, J. J.	Lindsay, Ont.	From Feb. 12 to March 31, 1912 and from April 1, 1912 to March 31, 1913	162 10	
McDonald, B. R.	Prince Rupert, B.C.	From April 1, 1911 to March 31, 1912 and from April 1, 1912 to Nov. 16, 1912	291 00	
Polley, W. H	Trenton, Ont.	From April 1, 1912 to March 31, 1913	346 40	
Porter, N.	Simcoe, Ont.	" " "	346 40	
Allison, J. B	Napanee, Ont.	" " "	1 68	
Marsh, R. J. F.	Fort Frances, Ont.	" " "	146 40	
Jackson, H. B.	Rainy River, Ont.	" " "	346 40	
Blair, Alex.	Chicoutimi, Que.	" " "	146 40	
Kavanagh, A. J.	Gaspé, Que.	" " "	95 52	
Ratchford, C. E.	Amherst, N.S.	" " "	29 50	
Nuruh, T.	Rosthern, Sask.	" " "	346 40	
Ball, J. A	Dauphin, Man.	" " "	246 40	
McMillan, D. N.	Morden, Man.	" " "	246 40	
Gilhuly, R. H.	Selkirk, Man.	" " "	138 96	
Lindsay, H. W.	Melville, Sask.	From May 1, 1912 to February 28, 1913	225 87	
Porter, E. R.	"	From March 1 to March 31, 1913	20 53	
Boyd, A	Antigonish, N.S.	Guarantee from Apr. 1, '12 to Mar. 31, '13	3 60	
Clark, A. J.	Campobello, N.B.	" " "	3 60	
Kirk, J. T.	Sussex, N.B.	" " "	3 60	
McDonald, J. F.	New Glasgow, N.S.	" " "	3 60	
McPherson, J	North Sydney, N.S.	" " "	3 60	
Park, W. A	New Castle, N.B.	" " "	3 60	
Ratchford, C. E.	Amherst, N.S.	" " "	3 60	
Watt, G	Chatham, N.B.	" " "	3 60	
Martel, L.	Thetford Mines, Que.	" " "	3 60	
English, J. J.	Maple Creek, Alta.	" Mar. 15 to "	15	
Gilhuly, R. H	Selkirk, Man.	" Apr. 1, '12 "	3 60	
Mather, T. J.	Gretna, Man.	" June 1, '12 "	3 00	
White, J. J.	Sidney, B.C.	" for 8 months	2 40	
White, H.	Cranbrook, B.C.	" Apr. 1, '12 to Mar. 31, '13	3 60	
Brimacombe, M. A.	Vermilion, Alta.	" " "	3 60	
McMillan, D. N.	Morden, Man.	" " "	3 60	
Munro, H. P.	Taber, Alta.	" " "	3 60	
Nuruh, T.	Rosthern, Sask.	" " "	3 60	
Ball, J. A	Dauphin, Man.	" " "	3 60	
Brown, G.	Meaford, Ont.	" " "	3 60	
Daly, J. A.	Campbellford, Ont.	" " "	3 60	
Jackson, H. B.	Rainy River, Ont.	" " "	3 60	
Marsh, R. J. F.	Fort Frances, Ont.	" " "	3 60	
MacPherson, M. J.	Kincardine, Ont.	" " "	3 60	
Porter, N.	Simcoe, Ont.	" " "	3 60	
Tyson, A. M.	Wiarton, Ont.	" " "	3 60	
Glass, J. J.	Lindsay, Ont	" " "	3 60	
Allison, J. B.	Napanee, Ont.	" " "	3 60	
Britton, W. H.	Gananoque, Ont.	" " "	3 60	
Ross, W. T.	Picton, Ont.	" " "	3 60	
Valleau, A. S.	Deseronto, Ont.	" " "	3 60	
Polley, W. S.	Trenton, Ont.	" " "	3 60	
Blair, A	Chicoutimi, Que.	" " "	3 60	
Kavanagh, A. J.	Gaspé, Que.	" " "	3 60	
Collier, J. H.	Medicine Hat, Alta.	" for 1½ months	0 45	
Sewell, R. A.	"	" " 10½ "	3 15	
McDonald, B. R.	Prince Rupert, B.C.	" " 7 "	2 10	
Cuttingham, W. H.	Red Deer, Alta.	" " 8¾ "	2 64	

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Place of Residence.	Service.	Amounts paid.	Total amounts paid.
			$ cts.	$ cts.
Porter, A. R.....	Melville, Sask ...	Gnarantee for 1 month.....	0 30	
Conway, D. T.....	Ladysmith, B.C....	" " 4 "	1 20	
Beauchesne, P. C...	Paspébiac, Que.....	" " 10 "	3 00	
Lindsay, H. W.....	Melville, Sask ...	Refunded to him.....	3 30	
		Total amount of Commission...	....	3,886 87

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Duty-pay.	$ cts.	$ cts.
Bouteiller, G. A.	From April 1, 1912, to March 31, 1913.	300 00	
Falconer, J. C.	" "	150 00	
Adam, A. R.	" "	150 00	
Thomas, R.	" "	150 00	
Cummiford, F. D.	" "	150 00	
Keog, P. M.	" "	150 00	
Bayard, G. A.	" "	150 00	
Niven, T. D.	" "	150 00	
Bergeron, R. J.	" "	150 00	
Cahill, J. W.	" "	150 00	
Gerald, Chrs.	" "	300 00	
Jamieson, R. C.	" "	300 00	
Hurst, L. B.	" "	200 00	
Doyle, B. J.	" "	150 00	
O'Leary, T. J.	" "	150 00	
Walsh, W. H.	" "	150 00	
Eakins, G. G.	" "	150 00	
Shorey, A. B.	" "	150 00	
Abbott, H. F.	" "	150 00	
Young, J. J.	" "	150 00	
Jones, A.	" "	150 00	
Helliwell, H. N.	" "	122 98	
Dawson, W.	"	300 00	
Martin, N.	" "	200 00	
Thomas, F. W.	" "	150 00	
Egener, A.	" "	150 00	
Howie, Alex.	" "	150 00	
Baby, W. A. D.	" "	250 00	
O'Brien, J. F.	" "	200 00	
Boyd, J. F.	" "	150 00	
Elliott, W. J.	" "	150 00	
Wilson, H. R.	" "	150 00	
Lalley, J. E.	" "	150 00	
Sprague, F. W.	" "	150 00	
Gerald, W. H.	" "	300 00	
McPherson, E. A.	" "	200 00	
Byrne, W. P.	" "	150 00	
Bissell, C. H.	" "	150 00	
Granton, C.	" "	107 58	
Brown, W. J.	" "	208 33	
Murray, D.	" "	300 00	
Bouchard, Jos.	" "	150 00	
Coté, A. R.	" "	150 00	
Walsh, D. J.	" "	300 00	
Milot, J. F.	" "	150 00	
Davidson, J.	" "	150 00	
Macdonald, A. B.	" "	250 00	
Bernard, N. J. D.	" "	200 00	
Chaput, N. J.	" "	109 67	
Mason, F.	" "	200 00	
Allen, G. A.	" "	300 00	
Chilver, F. W.	" "	200 00	
Guay, R. S.	" "	150 00	
Sutherland, W.	" "	150 00	
Snowdon, J. W.	" "	300 00	
Normandin, G.	" "	200 00	
Olivier, H.	" "	150 00	
Denis, J. L.	" "	150 00	
Tellier, J. O.	" "	112 23	
Olivier, J. A.	" "	112 10	
Desaulniers, J. E. A.	" "	200 00	
Amor, W.	" "	200 00	
Coleman, J. J.	" "	200 00	
Berry, H. L.	" "	200 00	

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Amounts paid,	Total amounts paid.
	Duty-pay—Continued.	$ cts.	$ cts.
Morforton, E	From April 1, 1912, to March 31, 1913	100 00	
Corriveau, O	" " "	100 00	
Poitras, W	" " "	100 00	
Quinn, J. D	" "	150 00	
Morris, T. H	" "	100 00	
Davis, T. J	" "	100 00	
Fairley, W	" "	100 00	
Gauvin, E	" "	100 00	
Brain, A. F	From April 1 to July 3, 1912	51 61	
Lane, T. M	" " 1, 1912, to March 31, 1913	186 83	
Brennan, J	" " 1 to September 30, 1912, and from Oct. 1 to Dec. 12, 1912	104 84	
Mooney, G. B	" April 1 to August 31, 1912	62 50	
Hall, W. H	" " 22 to September 12, 1912	39 72	
Mather, A. P	" " " "	39 72	
Woodward, G. W	" " 1 to April 30, 1912	12 50	
Feik, L	" May, 1912, to March 31, 1913	91 67	
Standish, J. G	" April 1 to Dec. 17, 1912, and from Jan. 18 to Mar. 31, 1913	275 60	
McFee, A. C	" April 1 to Dec. 3, 1912, and from Jan. 15 to Mar. 31, 1913	133 07	
Keeler, G. S	" April 1, 1912, to January 2, 1913	113 31	
Bergeron, E. L	" April 1 to November, 1912	100 00	
Goodman, A. W	" " " "	100 00	
Gariépy, L. N	" " 1 to April 2, 1912, and from June 2, 1912, to March 31, 1913	125 00	
Millier, E	" April 1 to July 7, August 5 to Nov. 24, 1912, and from Dec. 12, to March 31, 1913	131 77	
Parent, E	" July 8 to August 4, 1912	11 29	
Evans, G. T	" April 1, 1912, to February 20, 1913	178 57	
Young, R. E	" " 1 to August 4, 1912, and from August 26, 1912, to March 31, 1913	188 71	
Hicks, W. H	" August 5 to August 25, 1912	11 29	
Johnson, J. J	" April 1, 1912, to February 11, 1913	86 61	
Bousquet, J. O	From April 1 to August 11, 1912 and from Sept. 1, 1912, to March 31, 1913	94 62	
Hughes, M	From August 12 to August 25, 1912	3 77	
Harwood, J. O	" " 26 to August 31, 1912	1 61	
Marin, L. H	" April 1 to July 7, 1912, and from July 29, 1912, to March 31, 1913	94 36	
Panneton, G. E	" July 8 to July 28, 1912	5 64	
Moynahan, John	" December 12, 1912 to March 31, 1913	28 76	
Lyons, E	" " 28, 1912 to March 31, 1913	26 07	
Blyth, Alex	" " 9 to January 31, 1912, and from Feb. 12 to March 31, 1913	35 16	
McNally, E	" January 12 to March 31, 1913	17 73	
Ouimet, O	" November 25 to December 11, 1912	6 94	
Graham, A. L	" February 21 to March 31, 1913	21 43	
	Total duty-pay		14,852 99

SESSIONAL PAPER No. 12

APPENDIX B.—No. 1.—Details of Excise Expenditures for the Year ended March 31, 1913—*Concluded.*

To whom paid.	Service.	Amounts paid.	Totals amounts paid.
		$ cts.	$ cts.
	Total	.....	705,104 39
	ADD—H. H. Grant (Special votes)	.....	200 00
	ADD—Printing	8,368 25	
	Stationery	2,492 26	
			10,860 51
	Grand total	.....	716,164 90
	ADD—Balances due by Inspector, 1913	343 98	
	" to " 1912	1,273 30	
			1,617 28
			717,782 18
	LESS Balances due by Inspector, 1912	343 98	
	" to " 1913	49 08	
			393 06
	Actual disbursement, less superannuation, insurance, retirement, guarantee and annuities, agreeing with Statement No. 4, page 12	.....	717,389 12

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B.—No. 2.—Distribution of Seizures for the Year ended March 31, 1913.

Divisions.	To whom paid.	Service.	Amounts paid.	Total amounts paid.
			$ cts.	$ cts.
Montreal.	Caven, W.	To pay informer ½ penalty on seizure No. 1226	100 00	
		" " " " 1230	50 00	
		" " " " 1231	5 00	
		" " " " 1238	25 00	
		" " " " 1239	12 50	
		" " " " 1242	25 00	
				217 50
	Compte, Jos. A.	For his share of seizure " 1172	0 90	
		" " " 1173	2 70	
		" " " 1196	1 50	
				5 10
	Brabant, G. N.	" " " 1172	0 90	
		" " " 1173	2 70	
		" " " 1193	3 50	
		" " " 1196	1 50	
		" " " 1216	3 20	
		" " " 1223	50 10	
		" " " 1226	1 61	
		" " " 1226	33 33	
		" " " 1230	123 50	
		" " " 1231	2 45	
		" " " 1232	4 22	
		" " " 1233	12 80	
		" " " 1234	12 35	
		" " " 1235	13 75	
		" " " 1238	12 50	
		" " " 1239	5 62	
		" " " 1239	1 15	
		" " " 1240	25 00	
		" " " 1241	4 62	
		" " " 1241	0 38	
				315 18
	Normandin, G.	" " " 1200	.....	35 00
	Larue, T. M.	" " " 1200	... ...	35 00
	Lespérance, J. A.	" " " 1211	102 00	
		" " " 1231	2 45	
		" " " 1232	4 22	
		" " " 1239	5 63	
		" " " 1239	1 16	
				115 46
	Bernier, J. A.	" " " 1226	1 62	
		" " " 1226	33 33	
				34 95
	Costigan, J. J.	" " " 1226	1 62	
		" " " 1226	33 34	
				34 96
	Robillard, G. A.	" " " 1240	25 00	
		" " " 1241	4 63	
		" " " 1241	0 37	
				30 00
	Caven, W.	" " " 1238	.....	12 50
	O'Donnell, M. G.	" " " 1235	.....	13 75
Quebec.	Arcand, D.	To pay informer ½ penalty in seizure No. 621	5 00	
		" " " " 623	12 50	
		" " " " 623	50 00	
		" " " " 625	12 50	
		" " " " 626	12 50	
		" " " " 627	12 50	
		" " " " 628	12 50	
		" " " " 629	5 00	
		" " " " 631	12 50	
				135 00
	Bouliane, G.	For his share of seizure " 621	.....	3 50
	Bourget, O.	" " " 623	24 05	
		" " " 627	6 25	
				30 30
	Trudel, E.	" " " 623	.....	24 05
	Poitras, W.	" " " 627	.....	6 25

SESSIONAL PAPER No. 12

APPENDIX B.—No. 2.—Distribution of Seizures for the Year ended March 31, 1913.

Divisions.	To whom paid.	Service.		Amounts paid.	Total amounts paid.
				$ cts.	$ cts.
Sherbrooke	Simpson, A. F.	To pay informer ½ penalty in seizure	No. 216	25 00	
		" " "	" 217	25 00	
					50 00
	Bowen, F. C.	For his share of seizure	" 216	21 75	
		" "	" 217	12 50	
					34 25
	Simpson, A. F.	" "	" 217		12 50
St. John	Belyea, T. H.	To pay informer ½ penalty in seizure	" 190	25 00	
		" " "	" 191	25 00	
		" " "	" 192	25 00	
		" " "	" 193	12 50	
		" " "	" 194	5 00	
		" " "	" 195	25 00	
					117 50
	Kelly, J. T.	For his share of seizure	" 183	20 00	
		" "	" 184	21 15	
		" "	" 185	22 30	
		" "	" 187	6 00	
		" "	" 190	21 50	
		" "	" 191	21 50	
		" "	" 192	22 00	
		" "	" 193	9 00	
		" "	" 194	1 15	
		" "	" 195	23 50	
					168 40
Halifax	Grant, H. H.	To pay informer ½ penalty in seizure	" 189		50 00
	Tompkins, P.	For his share of seizure	" 189		12 50
	Blethen, C. W.	" "	" 189		12 50
Pictou	Murray, D.	" "	" 104	0 80	
		" "	" 109	0 80	
		" "	" 110	1 00	
					2 60
	Chisholm, D.	" "	" 114		1 00
	Fraser, P.	" "	" 104	0 80	
		" "	" 109	0 80	
		" "	" 110	1 00	
		" "	" 111	1 00	
		" "	" 119	3 20	
					6 80
Winnipeg	Gosnell, T. S.	To pay informer ½ penalty in seizure	" 68		50 00
	Barrett, H. J. K.	For his share in seizure	" 68		14 94
	Gosnell, T. S.	" "	" 68		14 94
	McArthur, G. H.	" "	" 68		14 94
	Levêque, I.	" "	" 68		14 94
	Currie, W. W.	" "	" 68		14 94
	Fegan P. J.	" "	" 68		14 95
Calgary	Fletcher, R. W.	To pay informer ½ penalty collected			50 00
Vancouver	Parkinson, E. B.	To pay informer ½ penalty in seizure	" 60	25 00	
		" " "	" 61	25 00	
		" " "	" 62	25 00	
		" " "	" 63	50 00	
		" " "	" 64	25 00	
					150 00
	Thornburn, Jas.	For his share in seizure No. 57		25 00	
		" " 58		25 00	
		" " 59		25 00	
		" " 60		25 00	
		" " 61		25 00	
		" " 62		25 00	
		" " 63		52 00	
		" " 64		27 00	
					229 00
		Total			2,085 20

APPENDIX B.—No. 2.—Distribution of Seizures—*Concluded.*

RECAPITULATION.

Quebec	$1,145 25
New Brunswick	285 90
Halifax	85 40
Manitoba	139 65
Alberta	50 00
British Columbia	379 00
	$2,085 20

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister

APPENDIX B.—*Continued.*

No. 3.—Details of Sundry Minor Expenditures for the Year ended March 31, 1913.

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Proprietary or Patent Medicine Act.	$ cts.	$ cts.
Rudolf, Prof. R.	For consultation as expert	200 00	
Blakadar, Dr. A. D	" "	200 00	
Prisault, C. A.	Law cost in *re* Rex *vs* Eph. Ethier	40 00	
	Printing	67 68	
	Stationery	0 25	
			507 93
The Journal	Advertising tenders "Rockliffe and Gatineau Ferry," 62 lines, 6 ins.		37 20
	Export of Electric Power.		
Lambe, A. B.	Travelling expenses		334 45
	Grand total agreeing with statement No. 10, page 18		879 58

W. HIMSWORTH,
Deputy Minister.

Inland Revenue Department,
Ottawa, June 1, 1913.

APPENDIX B.—*Continued.*

No. 4.—Details of Adulteration of Food Expenditures for the Year ended March 31, 1913.

To whom paid.	Service.	Deduction for Superannuation.	Guarantee.	Amounts paid.	Total Amounts paid.
	Adulteration of Food.	$ cts.	$ cts.	$ cts.	$ cts.
Hogan, Jas., Kingston, Ont.	Salary as Food Inspector for the year.		1 08	198 92	
Talbot, J., London, Ont.	" "		1 08	198 92	
Dager, H. J., Toronto, Ont.	" "		1 08	198 92	
Costigan, J. J., Montreal, Q.	" "	7 71	1 08	378 64	
Béland, F. X., Quebec, Que.	" "		1 08	298 92	
Rouleau, J. C., St. Hyacinthe, Q.	" "		1 08	198 92	
Ferguson, J. C., St. John, N.B.	" "	4 00	1 08	194 92	
Waugh, R. J., Halifax, N.S.	" "		1 08	348 92	
Weeks, W. A., Charlottetown, P.E.I.	" "		1 08	198 92	
Larivière, A. C., Winnipeg, Man.	" "		1 08	198 92	
Fletcher, R. W., Calgary, Alta.	From April 1 to May 31, 1912		0 18	33 14	
Power, J. F., Vancouver, B.C.	Salary as Food Inspector for the year.		1 08	198 92	
O'Sullivan, D., Victoria, B.C.	" "		1 08	198 92	
Parker, T., Nelson, B.C.	" "		1 08	198 92	
		11 71	14 22		3,044 8 2

APPENDIX B.—*Continued.*

No. 4.—Details of Adulteration of Food Expenditure for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Adulteration of Food.	$ cts.	$ cts.
	Contingencies.		
McGill A., for the Ottawa Laboratory	Travelling expenses	341 25	
	Special assistance	725 50	
	Sundries for laboratory	2,880 21	
Hogan, James	Travelling expenses and purchases of samples, &c	158 33	
Talbot, J.	" "	131 33	
Rickey, J. A.	" "	253 29	
Kidd, T.	" "	19 49	
Dager, H. J.	" "	215 85	
Costigan, J. J.	" "	431 65	
Beland, F. X.	" "	373 97	
Roulean, J. C.	" "	248 06	
Ferguson, J. C.	" "	209 30	
Weeks, W. A.	" "	85 70	
Larivière, A. C.	" "	168 05	
Fletcher, R. W.	" "	45 05	
Power, J. F.	" "	99 30	
O'Sullivan, D.	" "	82 55	
Parker, T.	" "	187 90	
Pelletier, A.	" "	165 43	
Lavallée, V. P.	" "	56 42	
Waugh, R. J.	" "	315 65	
			7,197 28
Valade, Dr. F. X.	Allowance under Act for retaining fees	200 00	
	" rent	100 00	
	" material used in analyses	100 00	
			400 00
Fagan, Dr. C. J.	" retaining fees	200 00	
	" rent	100 00	
	" material used in analyses	100 00	
			400 00
Bowman, M.	" retaining fees	200 00	
	" material used in analyses	100 00	
			300 00
Donald, Dr. J. T.	" retaining fees	200 00	
	" rent	100 00	
	" material used in analyses	100 00	
	Retaining fees as member of Food Standards of laboratory	200 00	
			600 00
Ellis, Dr. W. H.	" " "		200 00
Emil Greiner Co.	Supplies to laboratory		132 15
Lymans Ltd.	Supplies and apparatus for laboratory		906 84
Allacott, J. A. L.	For installation of motor, &c., at laboratory		731 43
Andrews, A. J.	Law costs *in re* Rex *vs.* G. T. Grant		10 00
	" " C. H. Hoffman		10 00
	" " Dingle & Stewart		10 00
McGill, A.	Expenses incurred in connection with Congress at Washington		195 20
Lussier & Guimond.	Law costs		10 00
McKenzie, J. J., Prof.	Expenses *re* Board of Examiners		188 30
Choquette, Rev. Father.	" "		104 00
Gidwood, Dr. G. P.	" "		87 50
Lawrence Dairy Supply Co., The	1 bottle Babcock tester and 48 test bottles		45 00
Gooderham & Worts, Ltd	Alcohol for laboratory		34 85
American Platinum Works	296·15 grains in 12 plate dishes		504 09
Guimond, Mrs.	For cleaning laboratory, &c.		40 00
Dessaint, Mrs.	" "		121 00
Chenier, Miss	" "		57 75
Turpin, Mrs.	" "		84 00

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APPENDIX B.—*Continued.*

No. 4.—Details of Adulteration of Food Expenditures for the Year ended March 31, 1913—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	Adulteration of Food.	$ cts.	$ cts.
	Contingencies.		
Collectors of Customs	Duty on imported goods		116 44
Pritchard & Andrews Ltd	Seal and general repairs		7 05
Baldwin, B. H. & Co.	Repairing motor, &c., at laboratory		68 20
Eimer & Amend	General supplies for laboratory		254 95
Davidson, N. F.	Law costs, Rex vs. A. Findley and N. E. Fenwick		100 00
Skinner, J. S. & Son	Supplies, &c., for laboratory		32 10
Beaver Flint Glass Co., Ltd., The	20 gros. vials		30 00
Topley Co., The	Apparatus for laboratory		1,246 45
McLennan, J. R.	Installing a steam boiler in laboratory		915 00
Dawsley, A. H.	Furnitures for laboratory		107 25
Strohlein & Co.	1 white colorimeter		36 00
Lafleur, E	Cleaning laboratory		19 50
Pinhey & Co	For passing customs entries		2 50
Canadian Express Co.	Express charges		3 35
Himsworth, W.	Paid on account of express charges, &c		49 10
Laframboise, L.	Special translation		8 28
			18,410 38
	Add—Printing	3,284 24	
	Stationery	262 64	
			3,546 88
	Actual disbursements (less superannuation and guarantee fund) agreeing with statement No. 6, page 15		21,957 26

Inland Revenue Department,
Ottawa, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B.—*Continued.*

No. 5.—Details of Departmental Expenditures for the Year ended March 31, 1913—*Continued.*

Names.		Rank.		Period.	Deductions for			Amounts paid.	Total Amounts paid.
		Division.	Sub-Division.		Superannuation.	Retirement.	Insurance.		
					$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Nantel, Hon. W. B	Minister			For the year				7,000 00	
Gerald, W. J	Dep. Minister			From April 1, to Sept. 30, 1912				2,500 00	
Himsworth, W.	Secretary and Acting Dep. Minister	1	A	For the year				3,850 00	
ampeau, F.R.E	Chief Account.	1	A	From April 1, to Nov. 30, 1912				2,000 00	
Valin, J. E	" "	1	A	For the year				2,650 00	
Shaw, J. F	" Statistical Clerk	1	B	"				2,600 00	
Doyon, J. A	Clerk	1	B	"	52 00			2,548 00	
Westman, T	"	1	B	"	46 00			2,254 00	
Laflamme, J. L. K	"	1	B	"		106 25		2,018 75	
" "	Private Secretary			"				600 00	
Quain, R	Ass. Account	1	B	"	63 00		61 92	1,975 08	
Taylor, G. W	Ass. Secretary	1	B	"	44 00			2,156 00	
Fowler, G	Clerk	1	B	"				2,100 00	
Brodeur, P.E.S.	"	2	A	"		85 00		1,615 00	
Hughes, P. A	"	2	A	"	57 75		55 92	1,536 33	
McCullough, A.	"	2	A	"	33 00			1,617 00	
Halliday, W. A.	"	2	A	"	56 00			1,544 00	
Roy, L. G	"	2	A	"	56 00			1,544 00	
Chateauvert, G. E	"	2	B	"		79 38		1,508 12	
Ostiguy, L. R	"	2	B	"		78 13		1,484 37	
Gervais, J. H	"	2	B	"		78 13		1,484 37	
Learoyd, D	"	2	B	"		40 00		760 00	
Lawless, E. M	"	3	A	"		60 00		1,140 00	
Hagerty, B	"	3	A	"		60 00		1,140 00	
Doyle, E. F	"	3	A	"		60 00		1,140 00	
Watson, V. M	"	3	A	"		60 00		1,140 00	
Goodhue, M. L. E. B	"	3	A	"		60 00		1,140 00	
Trumpour, G	"	3	A	"		60 00		1,140 00	
Furlong, C. J	"	3	A	"		59 38		1,128 12	
Beard, M. H	"	3	A	"		59 38		1,128 12	
Griffith, M. L	"	3	A	"		58 13		1,104 37	
Yetts, R. P.	"	3	A	"	35 00			965 00	
Lewis, H. B	"	3	A	"		51 88		985 62	
Teevens, L. P	"	3	A	"		50 00	43 34	906 66	
Allen, A. T	"	3	A	"		50 00		950 00	
Lyon, Anna V	"	3	A	"		51 88		985 62	
Robert A	"	3	A	"		47 50		902 50	
Evans, C. J	"	3	A	"		60 00	41 04	1,098 96	
Cantin, J. W. Z.	"	3	A	"		47 50	35 36	867 14	
Gosselin, B	"	3	B	July 1, 1912 to March 31, 1913		20 63		391 87	
Bourgeois, E	Messenger			For the year		40 00		760 00	
Roy, L	"			" "		40 00		760 00	
Desroches, L	"			From Aug. 1, 1912 to Mar. 31, 1913		20 00		380 00	

APPENDIX B.—*Continued.*

No. 5.—DETAILS of Departmental Expenditures for the Year ended March 31, 1913—*Continued.*

Names.		Rank. Division.	Rank. Sub-Division.	Period.	Deductions for Superannuation.	Deductions for Retirement.	Deductions for Insurance.	Amounts paid.	Total Amounts paid.
					$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
McGill, A	Chief Analyst.	1	A	For the year	66 00			3,234 00	
Lemoine, A,	Analyst	2	A	"		82 50		1,567 50	
Valin, J. A. G.	"	2	A	"		82 50	24 16	1,543 34	
Forster, E. L. C.	"	2	A	"		82 50		1,567 50	
Forward, C. C.	"	2	A	"		82 50		1,567 50	
Kitto, W. V.	"	2	A	"		76 25		1,448 75	
Rickey, J. A.	Clerk	3	A	"		60 00	75 36	1,064 64	
Bélisle, E.	"	3	A	From April 1 to July 31, 1912		20 00	11 68	368 32	
Wright, S. E.	"	3	A	For the year		60 00		1,140 00	
Ladouceur, J.	"	3	A	"		58 75	75 12	1,041 13	
Leckie, T. L.	Messenger			"		26 25		498 75	
Armstrong, W.	Supt. of Met. Spirits manufacture	2	A	For the year		127 20		1,972 80	
Parent, F.	Clerk	3	A	"		60 00		1,140 00	
Popham, F. H	Warehouseman			"		40 00		760 00	
Higman, O.	Chief Elect. Engin. and Insp. of Gas	1	A	"		155 00		2,945 00	
Cole, N. R.	Clerk	3	A	"		56 25		1,068 75	
Mathews, E. D. K.	"	3	A	"		45 00		855 00	
McKell, M. E. E.	"	3	B	"		36 25		688 75	
Fyfe, Jas	Chief Insp. of W. and M.	1	A	From April 1 to July 31, 1912		51 68		981 64	
Way, E. O.	" "	1	B	For the year		83 13		1,579 37	
Barbeau, L.	Clerk	3	B	"		40 00		760 00	
Burgess, T. H.	Carpenter			"		50 00		950 00	
Chenier, E.	Lower Grade			From July 1, 1912 to Mar. 1913		18 75		856 25	
				Totals	508 75	2,877 68	423 90		96,597 99

APPENDIX B.—*Continued.*

No. 5.—Details of Departmental Expenditures for the Year ended March 31, 1913.—*Continued.*

Names.	Services.	Amount paid.	Total amount paid.
		$ cts.	$ cts.
Nantel, Hon. W. B	Advance on travelling expenses	562 25	
Himsworth, W.	Petty expenses	148 10	
Sweet, R. P	Salary from April 1 to 11, 1912	15 27	
Grignon, L. J	" as extra clerk	83 32	
Barry, E. V	" "	83 32	
Lees, B	" "	83 32	
Chenier, E.	" "	124 98	
Cloutier, E.	" "	491 59	
Cyr, H.	" "	470 76	
Laforce, J. E	" "	600 00	
Armstrong, A. E.	" "	13 67	
St. Jacques, Y	" "	198 89	
Berland, E.	" "	530 83	
Brasse-Brossard, L.	" "	625 53	
Rional, Y.	" "	274 36	
Labelle, V	" "	28 22	
G. N. W. Telegraph Co.	Telegrams	94 73	
C. P. R'y. " "	"	127 24	
Cr. R. G. for King's Printer	Printing	1,419 29	
" "	Parliamentary publications	50 75	
Cr. R. G. for Cont. of Stationery	Stationery and books	1,711 47	
The Bell Telephone		76 50	
Thornton & Truman, Ottawa	Repairs to locks and keys	15 80	
Munn & Co., New York	Subscription	8 25	
The Labour News, Hamilton	"	1 17	
Saturday Night, Toronto	"	18 00	
Citizen Printing Co., Ottawa	"	1 50	
Catholic Register, Toronto	"	1 90	
Le Ralliement St. Joseph, P. Que.	"	4 00	
Progrès du Golfe, Rimouski "	"	3 00	
Intelligencer, Belleville, Ont	"	6 00	
The Chronicle Printing Co., Quebec, Que.	"	3 00	
The Scout, Ottawa	"	1 00	
Windsor Tribune, Windsor, Ont	"	2 00	
Freeman, Toronto	"	1 30	
Ottawa Free Press, Ottawa	"	21 60	
Le Progrès du Saguenay	"	4 00	
The Guelph Herald, Guelph	"	4 00	
The Tobacco World, Philadelphia	"	4 34	
The Mail and Empire, Toronto	"	3 00	
Gazette Printing Co., Montreal	"	18 00	
La Presse, Montreal	"	7 00	
Le Devoir "	"	9 00	
The Evening Telegram, Toronto	"	3 00	
" Citizen, Ottawa	"	24 00	
The Journal Printing Co., Ottawa	"	14 40	
United Canada "	"	1 50	
The News Publishing Co., Toronto	"	4 50	
The Planet, Chatham	"	4 00	
The Herald, Hamilton	"	3 60	
The Spectator "	"	3 00	
The Daily Journal, Edmonton	"	3 00	
The Citizen, Vancouver	"	2 00	
The Province, Vancouver	"	3 00	
Saturday Sunset, Vancouver	"	4 00	
Colonist, Victoria	"	10 00	
The Week "	"	1 00	
Les Cloches, St. Boniface	"	2 00	
Le Manitoba "	"	1 00	

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APPENDIX B—*Continued.*

No. 5.—DETAILS of Departmental Expenditure for the Year ended March 31, 1913—*Continued.*

Names.	Services.	Amount paid.	Total amount paid.
		$ cts.	$ cts.
Grain Growers' Guide, Winnipeg	Subscription	2 00	
North-West Review "	"	1 00	
The Telegram "	"	2 00	
L'Evangeline, Moncton	"	2 00	
Le Moniteur Acadien, Shediac	"	1 00	
The Globe, St. John	"	5 00	
The Bulletin, Bridgewater	"	1 00	
The Herald, Halifax	"	5 00	
The Mail "	"	5 00	
The Standard, St. Catharines	"	3 00	
Canadian Mining Journal, Toronto	"	1 00	
The Daily Examiner, Charlottetown	"	2 50	
Gas Journal, Toronto	"	2 00	
Toronto World "	"	10 00	
Standard of Empire, Toronto	"	4 00	
Daily Star "	"	3 00	
The Express, Woodstock	"	3 00	
L'Action Canadienne, Fraserville	"	1 00	
La Semaine, Grand Mère	"	1 00	
L'Avenir de Jonquières, Jonquières	"	1 00	
L'Etoile du Nord, Joliette	"	0 75	
L'Action, Montreal	"	1 00	
The Herald "	"	6 00	
Le Moniteur du Commerce, Montreal	"	2 00	
Le Nationaliste "	"	1 00	
La Patrie "	"	7 00	
Le Pays "	"	2 00	
Revue Franco-Américaine "	"	4 00	
Montreal Star "	"	9 00	
The Witness "	"	6 00	
Le Peuple "	"	1 00	
L'Action Sociale, Quebec	"	6 00	
The Chronicle "	"	3 00	
L'Evenement "	"	3 00	
La Nouvelle France "	"	3 00	
La Semaine Commerciale, Quebec	"	2 00	
La Vérité "	"	2 00	
La Tribune, St. Hyacinthe	"	2 00	
Le Bien Public, Trois-Rivières	"	1 00	
Le Mineur, Thetford Mines	"	3 00	
L'Echo des Bois Francs, Victoriaville	"	1 00	
Le Journal de Waterloo, Waterloo	"	1 00	
The Globe, Toronto	"	6 00	
American Food Journal, Chicago	"	1 50	
Nostrums and Quackery "	"	1 00	
Canada Newspaper, London, Eng.	"	7 00	
Jones, Yarrel & Co. "	"	17 03	
Journal of Gas Light "	"	6 69	
Bulletin de la Canadienne, Paris, France	"	15 20	
London Free Press, London, Ont.	"	3 00	
Le Patriote, Duke Lake	"	1 00	
La Revue Canadienne, Montreal	"	6 00	
Gas Journal, Hamilton	"	2 00	
The World, Chatham	"	2 00	
Le Canada Français, St. Jean	"	2 00	
La Société de Géographie, Quebec	"	2 00	
	Total	8,237 52	

APPENDIX B—*Continued.*

No. 5.—DETAILS of Departmental Expenditures for the Year ended March 31, 1913—*Concluded.*

Names.	Services.	Amount paid.	Total amount paid.
		$ cts.	$ cts.
	Total amount expended.		104,835 51
	ADD—Balance due March 31, 1913		16 66
			104,852 17
	LESS—Balance due April 31, 1912		16 66
	Actual disbursement agreeing with statement No. 16, page 44		104,835 51

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B—*Continued.*

No. 6.—Details of Weights and Measures Expenditures for the Year ended March 31, 1913.

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Belleville.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Johnson, W	Salary as Inspector from April 1 to Oct. 31, 1912. Died Oct. 5, 1912	14 00	.....	2 10	683 90	
Slattery, T.	" Asst. Inspector for the year	15 96		1 80	782 16	
Kylie, R	"	...		1 80	798 12	
Howson, G. H	" "			1 80	798 12	
Diamond, F. D.	" " from Jan. 11 to March 31, 1913			0 80	222 30	
	Salaries	29 96		8 30	3,284 60	
	Contingencies				2,632 00	
						5,316 60
	Hamilton.					
Sealey, J. C.	Salary as Inspector for the year			3 60	1,396 32	
Fitzgerald, E. W.	" Asst. Inspector for the year			1 80	998 16	
Wheatley, A. E.	" " "			1 80	1,098 12	
Laidman, R. H.	" " "			1 80	1,023 15	
Robins, S. W	" " "			1 80	948 12	
Clegg, J.	" " "			1 80	848 16	
Brick, J. H.	" " from Aug. 1, 1912 to March 31, 1913			1 20	415 40	
	Salaries			13 80	6,727 39	
	Contingencies				2,184 51	
						8,912 60
	Kingston.					
Gallagher, T	Salary as Inspector for the year			3 60	1,096 32	
Johnston, C. W.	" Asst. Inspector from April 1 to Sept. 30, 1912. Transferred to Saskatoon as Inspector from Oct. 1, 1912 to March 31, 1912			0 80	499 08	
MacLean, C. E.	" Asst. Inspector for the year			1 80	598 20	
	Salaries			6 30	2,193 60	
	Contingencies				615 55	
						2,809 15
	London.					
Butler, F. H	Salary as Inspector from April 1, to July 31, 1912. Services dispensed with			1 20	465 44	
Coughlin, D	" Asst. Inspector for the year			1 80	998 16	
Thomas, J. S.	" " "			1 80	998 16	
Hughes, R. A	" " from April 1 to Aug. 31, 1912. Promoted Inspector from Sept. 1, 1912 to March 31, 1913			2 85	1,134 65	
Liddle, D.	" Asst. Inspector for the year			1 80	898 20	
	Salaries			9 45	4,494 61	
	Contingencies				3,049 73	
						7,544 34

APPENDIX B—*Continued.*

No. 6.—Details of Weights and Measures Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Ottawa.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Hinchey, E. H.	Salary as Inspector for the year	29 43		3 60	1,441 92	
Breen, J.	" Asst. Inspector for the year			1 80	998 16	
Findlay, R.	" " "			1 80	973 14	
Church, G. C.	" " from April 1 to July 1, 1912. Services dispensed with and re-instated from Mar. 8 to Mar. 31, 1913			0 56	235 32	
Hodgins, H. A.	" Asst. Inspector from April 1 to July 1, 1912. Services dispensed with and re-instated from Dec. 1, 1912 to March 31, 1913			0 90	374 09	
Thompson, L. L. L.	" Asst. Inspector from Jan. 1 to March 31, 1913			0 45	199 55	
	Salaries	29 43		9 11	4,222 18	
	Contingencies				3,609 95	
						7,832 13
	Toronto.					
McConvey, J. J.	Salary as Inspector for the year			3 60	1,496 40	
Milligan, J. R.	" Asst. Inspector from April 1 to Oct. 31, 1912. Died Nov. 1, 1912			1 20	732 08	
Wright, R. J.	" Asst. Inspector for the year	20 60		1 80	1,010 88	
Smith, J. C.	" " "			1 80	998 16	
Murdock, J.	" " "			1 80	998 16	
Cruickshank, J. L.	" " "			1 80	898 20	
Fallowdown, W. A.	" " from Aug. 1, 1912 to March 31, 1913			1 20	465 44	
McEachern, C. A.	" Asst. Inspector from Dec. 1, 1912 to March 31, 1913			0 45	232 87	
	Salaries	20 60		13 65	6,832 19	
	Contingencies				2,943 45	
						9,775 64
	Montreal.					
Archambault, J. E.	Salary as Inspector for the year			3 60	1,796 40	
Daoust, J. A.	" Asst. Inspector for the year	22 96		1 80	1,125 23	
Hébert, J. A.	" " "			1 80	1,098 18	
Boudet, E.	" " "			1 80	998 16	
Beaulac, J. H.	" " "			1 80	968 97	
Galipeau, J. B. N.	" " "			1 80	898 20	
Wilson, J. C.	" " "			1 80	898 20	
Belanger, S. F.	" " from Aug. 1, 1912 to Mar. 31, 1913			1 20	398 80	
Chapleau, J. R.	" as Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913			0 45	199 55	
	Salaries	22 96		16 05	8,381 69	
	Contingencies				4,679 17	
						13,060 86
	Quebec.					
Roy, C. E.	Salary as Inspector for the year			3 60	1,596 36	
Lebel, J.	" Asst. Inspector for the year	38 40		1 80	1,059 72	
Préfontaine, F. H.	" " "			1 80	948 12	
Knowles, C.	" " "			1 80	998 16	

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.		
	Quebec—Con.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Bourget, L. J.	Salary as Asst. Inspector for the year			1 80	998 16	
Caldwell, A. B.	" " "			1 80	448 20	
Beauchamp, L. E.	" " "			1 80	598 20	
Bernatchery, A	" " from Dec. 1, 1912 to Mar. 31, 1913			0 45	199 55	
Duchesne, N	" Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913				200 00	
	Salaries	38 40		14 85	7,046 47	
	Contingencies				5,512 19	
						12,558 66
	St. Hyacinthe.					
Morin, J. P	Salary as Inspector for the year			3 60	1,296 36	
Tomlinson, W. M	" Asst. Inspector from April 1 to Aug. 31, 1912. Retired from Sept. 1, 1912			0 75	632 53	
Dessert, V.	" Asst. Inspector for the year			1 80	948 12	
Fournier, L. A	" " from April 1 to May 31, 1912. Transferred to Sherbrooke from June 1, 1912			0 30	149 70	
Champagne, J. A	" Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913			0 45	199 55	
	Salaries			6 90	3,226 26	
	Contingencies				2,590 11	
						5,816 37
	Sherbrooke.					
Fournier, L. A.	Salary as Inspector from June 1, 1912 to Mar. 31, 1913			2 85	997 15	
Delorme, O. C.	" Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913			0 45	266 20	
	Salaries			3 30	1,263 35	
	Contingencies				2,770 92	
						4,034 27
	Three Rivers.					
Lessard, A	Salary as Inspector for the year			3 60	811 91	
Bolduc, E.	" Asst. Inspector for the year		*66 00	1 80	782 16	
	Salaries		66 00	5 40	1,594 07	
	Contingencies				246 17	
						1,840 24
	St. John.					
Barry, I.	Salary as Inspector for the year			3 60	1,396 32	
Bernier, J. A.	" Asst. Inspector for the year			1 80	648 18	
White, H. E	" " "			1 80	948 12	
Leblanc, J. O	" " from Aug. 1, 1912 to Mar. 31, 1913			1 20	398 80	
	Salaries				3,391 42	
	Contingencies			8 40	1,821 48	
						5,212 90

*Insurance.

APPENDIX B—*Continued.*

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Halifax.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Waugh, R. J.	Salary as Inspector for the year	....	.. ..	1 80	698 16	
O'Brien, W.	" Asst. Inspector for the year	.....	.....	3 60	1,096 32	
Dillon, D. H.	" " from Aug. 1, 1912 to Mar. 31, 1913.. ...	. ..	.....	1 20	398 80	
	Salaries	.....	.. ....	6 60	2,193 28	
	Contingencies	.....	.....	.....	2,461 28	4,654 56
	Pictou.					
Dustan, W. M.	Salary as Inspector for the year	24 00	.... ..	3 60	1,172 40	
Chisholm, J. J.	" Asst. Inspector for the year	.....	.....	1 80	898 20	
	Salaries	24 00	.....	5 40	2,070 60	
	Contingencies	.....	.....	.....	2,354 63	4,425 23
	Charlottetown.					
Davy, E.	Salary as Inspector for the year	.... ..	.....	3 60	1,096 32	
Hughes, H.	" Asst. Inspector for the year.	.... .	.....	1 80	756 53	
	Salaries	.....	.....	5 40	1,852 85	
	Contingencies	...	.....	.. ..	339 64	2,192 49
	Winnipeg.					
Walton, G.	Salary as Inspector for the year	.....	.....	3 60	1,546 39	
McKay, R.	" Asst. Inspector for the year	. ..	.....	1 80	948 12	
Gilby, W. F.	" " " ..	....	.....	1 80	698 16	
Spicer, H.	" " " ..	....	.....	1 80	848 16	
McLean, D. J.	" " " ..	.....	.....	1 80	664 84	
Grant, C. D.	" " " .	. .	.....	1 80	698 16	
	Salaries	.....	.....	12 60	5,403 83	
	Contingencies	.....	.....	.....	3,441 94	8,845 77
	Calgary.					
Costello, J. W.	Salary as Inspector for the year	27 20	.....	3 60	1,331 64	
Cook, J.	" Asst. Inspector from April 1 to Oct. 31, 1912. Resigned Nov. 1, 1912.	.....	.....	1 05	582 26	
Wilson, W.	" Asst. Inspector from April 1 to Nov. 30, 1912. Resigned Dec. 1, 1912	.....	.....	1 20	598 80	
	Salaries	27 20	.....	5 85	2,512 70	
	Contingencies	.. ...	....	....	2,314 56	4,827 26
	Saskatoon.					
Johnston, C. W.	Salary as Inspector from Oct. 1, 1912 to Mar. 31, 1913	....	.....	1 80	798 18	
MacKinnon, J. W.	" Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913.	..	.....	0 45	299 55	
McKintosh, W.	" Asst. Inspector from Feb. 10, 1913 to Mar. 31, 1913.	.....	.....	0 25	125 64	
Hayward, A. C.	" Asst. Inspector from Dec. 1, 1912 to Mar. 31, 1913.	.....	.....	.... ..	200 00	
McConnell, W. J.		.....	.. ..	1 20	372 99	
	Salaries	.....	.....	3 70	1,796 36	
	Contingencies	.....	.....	.....	3,219 42	5,015 78

APPENDIX B—*Continued.*

No. 6.—DETAILS of Weights and Measures Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.		
	Vancouver.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Marshall, R.	Salary as Inspector from April 1 to Nov. 30, 1912. Retired Dec. 1, 1912			2 40	897 60	
Dutton, A. H.	" Asst. Inspector from April 1 to Nov. 30, 1912, and Inspector from Dec. 1, 1912 to Mar. 31, 1913			2 40	1,061 24	
Harris, W. H.	Asst. Inspector for the year			1 80	848 16	
Shaw, J.	" "			1 80	318 12	
	Salaries			8 40	3,158 12	
	Contingencies				668 50	
						3,826 62
	Nelson.					
Parker, T.	Salary as Inspector for the year			3 60	1,246 32	
	Salaries			3 60	1,246 32	
	Contingencies				1,633 49	
						2,879 81
	Yukon.					
Macdonald, J. F.	Salary as Inspector for the year			3 60	996 40	
	Salaries			3 60	996 40	
	Contingencies				32 25	
						1,028 65
					2,770 92	4,934 27
	Chief Inspector.					
Way, E. O.	Contingencies					170 63

APPENDIX B—*Continued.*

No. 6.—Details of Weights and Measures Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	General Contingencies.	$ cts.	$ cts.
Pritchard & Andrews Co., Ltd., The	Stamps and general repairs, &c	111 27	
Oertling, L.	1 Assay balancer, &c	2,445 50	
Fyfe, G. D.	Salary for the year	1,200 00	
Collector of Customs	Duty on imported goods	326 76	
American Bank Note Co.	Stamps supplied	44 45	
Thornton & Truman	Keys and repairs, &c	52 40	
Birkett & Son Co., Ltd., The	Hardware supplies	49 25	
Ottawa Electric Light Co.	Rent of current supply	159 00	
Desjardins, E.	Clearing and painting standards, 30 d. at $1.50	45 00	
Grand Trunk Ry. Co.	Freight	1 20	
Astle, H. G. & Co.	2 bags of sand, &c	16 12	
William & Wilson	1 Auly forge bench	22 00	
Lawson, T. & Son	8 brass castings and repairs	5 00	
Smith Bros.	32 boxes for kits	107 50	
Canadian Express Co.	Express charges	104 40	
Haiskin, F. & Co.	Supplies, &c	55 00	
Pinhey & Co.	Brokerage on customs entries	2 00	
Guimont, Mrs. H.	Cleaning rooms	142 20	
Himsworth, W.	Express charges, &c	47 77	
	Total general contingencies		4,936 82
	Provisional Allowance.		
Walton, G., Winnipeg, Man.	To pay McKay, R.	124 92	
" "	" Spicer, H.	124 92	
" "	" Gilby, W. F.	124 92	
" "	" McLean, D. J.	124 92	
" "	" Grant, C. D.	124 92	
" "	" Keer, John	112 90	
Costello, J. W., Calgary, Alta.	" Cook, John	72 80	
" "	" Wilson, W. A.	83 31	
" "	" McLeod, W. F.	45 11	
Marshall, R., Vancouver, B.C.	" Dutton, A. H.	124 92	
" "	" Sutherland, J. W.	35 60	
" "	" Harris, W. H.	124 92	
Johnson, C. W., Saskatoon, S.	" Hayward, A. C.	78 24	
" "	" MacKinnon, J. W.	114 18	
" "	" Illingworth, H.	8 73	
" "	" McIntosh, W.	7 06	
	Total for provisional allowance		1,432 37

APPENDIX B—*Continued.*

No. 6.—Details of Weights and Measures Expenditures for the Year ended March 31, 1913—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	The International Bureau of Weights and Measures.	$ cts.	$ cts.
	Annual contribution of the Dominion of Canada towards the Bureau's appropriation for 1912		216 00
	Add—Printing	1,200 70	
	Stationery	549 65	
			1,750 35
	Grand total		130,915 50
	Add—Old balances due by Inspectors March 31, 1913	193 26	
	" Balance due by Inspector March 31, 1913	3 70	
			196 96
	Less—Old balances due by Inspectors April 1, 1912	193 26	131,112 46
	Balance due by Inspectors April 1, 1912	3 70	
			196 96
	Actual disbursements (less superannuation, insurance and guarantee) agreeing with statement No. 19a and 19b, page 50		130,915 50

Inland Revenue Department,
Ottawa, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B—*Continued.*

No. 7.—Details of Gas Inspection Expenditures for the Year ended March 31, 1913

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Barrie.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Shanacy, M	Salary as Inspector for the year	2 00		3 60	94 40	
						94 40
	Belleville.					
Johnson, W	Salary as Inspector from April 1 to Nov. 1, 1912. Died Oct. 5, 1712	6 05		2 85	295 25	
	Contingencies				279 25	
						574 50
	Berlin.					
Powell, J. B.	Salary as Inspector for the year			3 60	196 40	
	Contingencies				101 05	
						297 45
	Cobourg.					
Bickle, J. W	Salary as Inspector for the year	2 00		3 60	94 40	
	Contingencies				138 84	
						233 24
	Guelph.					
Broadfoot, S	Salary as Inspector for the year	6 00		3 60	290 40	
	Contingencies				38 03	
						328 43
	Hamilton.					
McPhie, W. H	Salary as Inspector from April 1 to May 31, 1912. Resigned June 1, 1912			0 30	166 36	
Murphy, F. C	" Asst. Inspector for the year			1 80	1,045 71	
Dennis, W. A	" " "			1 80	148 20	
Lutz, Herbert	" " from Oct. 15, 1912 to Mar. 31, 1913			1 66	691 88	
	Salaries			5 56	2,052 15	
	Contingencies				1,163 77	
						3,215 92
	Listowel.					
Male, T	Salary as Inspector for the year			3 60	96 40	
	Contingencies				67 50	
						163 90
	London.					
Nash, A. F	Salary as Inspector for the year			3 60	1,646 40	
Skelton, A. R	" Asst. Inspector for the year			1 80	848 16	
	Salaries			5 40	2,494 56	
	Contingencies				641 43	
						3,135 99
	Ottawa.					
Roche, H. G	Salary as Inspector for the year			3 60	1,458 90	
Roche, W. J	" Asst. Inspector for the year			2 88	997 08	
Bond, M. B	" " "			2 88	997 08	
Couvrette, A. A	" " from June 11, 1912 to Mar. 31, 1913			1 45	642 93	
	Salaries			10 81	4,095 99	
	Contingencies				1,571 26	
						5,667 25

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No 7.—Details of Gas Inspection Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Deductions for			Amounts paid.	Total amounts paid.
		Superannuation.	Retirement.	Guarantee.		
	Owen Sound.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Graham, W. J.	Salary as Inspector for the year			3 60	196 40	196 40
	Peterborough.					
Rork, T.	Salary as Inspector for the year			3 60	146 40	146 40
	Sarnia.					
Thrasher, W. A.	Salary as Inspector for the year.			3 60	196 40	
	Contingencies				3 75	200 15
	Stratford.					
Rennie, G.	Salary as Inspector for the year	0 33		3 60	196 07	
	Contingencies				19 95	216 02
	Toronto.					
Stiver, J. L.	Salary as Inspector for the year.		79 92	3 60	1,516 44	
Pape, J.	" Asst. Inspector for the year.			1 80	1,335 66	
Reesor, M. W.	" " "			1 80	1,298 16	
Renahan, M. J.	" " "			1 80	948 12	
Ogden, G. J.	" " "			1 80	860 03	
Clark, H. M.	" " "			1 80	798 12	
Johnstone, S. F.	" " "			1 80	864 80	
Wilson, H. H.	" " from Jan. 22 to March 31, 1913			0 30	193 24	
Mills, A. E.	" Asst. Inspector from March 7 to March 31, 1913			0 15	60 33	
	Salaries		79 92	14 85	7,874 90	
	Contingencies				1,571 32	9,446 22
	Woodstock.					
Orr, H. N.	Salary as Inspector for the year.			1 80	198 20	
	Contingencies				13 00	211 20
	Montreal.					
Aubin, A.	Salary as Inspector for the year			3 60	1,996 32	
O'Flaherty, M. J.	" Asst. Inspector for the year			1 80	998 16	
Aubin, C.	" " "			2 88	1,047 12	
Mann, W.	" " "			2 88	997 08	
Boucher, A.	" " from March 1 to March 31, 1913			0 15	83 18	
Blandford, E. B.	" Asst. Inspector from March 1 to March 31, 1913			0 15	83 18	
	Salaries			11 46	5,205 04	
	Contingencies				504 63	5,709 67

APPENDIX B—*Continued.*

No 7.—Details of Gas Inspection Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Services.	Deductions for			Amounts paid.	Total Amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Quebec.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Levasseur, N.	Salary as Inspector for the year	23 51	.. ....	3 60	1,152 02	
Béland, E.	" Asst. Inspector for the year	.....	.....	3 60	496 32	
	Salaries	23 51	.....	7 20	1,648 34	
	Contingencies	..	.. ....	.....	847 58	2,495 92
	Sherbrooke.					
Simpson, A. F.	Salary as Inspector for the year	3 96	.....	3 60	192 36	
Bowen, F. C.	" Asst. Inspector for the year	....	.....	1 80	148 20	
	Salaries	3 96	... ...	5 40	340 56	340 56
	St. Hyacinthe.					
Benoit, L. V.	Salary as Inspector for the year	. ...	.....	1 80	98 20	98 20
	Fredericton.					
Wilson, J. E.	Salary as Inspector for the year	.....	.. ..	1 80	98 20	98 20
	St. John.					
Wilson, J. E.	Salary as Inspector for the year	.....	. .....	3 60	1,296 40	
	Contingencies	....	.....	.....	205 95	1,502 35
	Halifax.					
Toale, J.	Salary as Inspector for the year	. ...	.....	3 60	1,246 32	.....
Withers, S. W.	" Asst. Inspector for the year	.....	.....	1 80	948 12	.....
Munro, H. D.	" " "	1 92	.....	1 80	96 24	.....
	Salaries	1 92	.....	7 20	2,290 68	
	Contingencies	.. .. .	.....	.....	787 06	3,077 74
	Charlottetown.					
Bell, J. H.	Salary as Inspector for the year	.....	.....	3 60	496 40	496 40
	Winnipeg.					
Hamilton, R.	Salary as Inspector for the year	. .	.....	3 60	1,646 40	
Babington, F. C.	" Asst. Inspector for the year	.....	.....	1 80	1,048 20	
Ross, W. A.	" " " from Sept. 1, 1912, to March 31, 1913	.....	.....	1 68	464 94	
Webber, Louis	Salary as Asst. Inspector from Dec. 16, 1912, to March 31, 1913	.....	.....	45	292 54	
	Salaries	....	.....	7 53	3,452 08	3,452 08
	Calgary.					
Kyle, W. P.	Contingencies	....	.....	.....	821 25	821 25

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 7.—Details of Gas Inspection Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Services.	Deductions for			Amounts paid.	Total Amounts paid.
		Superannuation.	Retirement.	Guarantee		
	Nanaimo.	$ cts.	$ cts	$ cts	$ cts.	$ cts
Shaw, J	Salary as Inspector for the year			3 60	96 40	96 40
	New Westminster.					
Wolfenden, W.	Salary as Inspector for the year		9 96	3 60	186 36	186 36
	Vancouver.					
Stott, Jas	Contingencies				111 00	111 00
	Victoria.					
Jones, R	Salary as Inspector from April 1 to July 1—Resigned	1 50		90	72 60	
Dresser, F.	Salary as Inspector from June 21, 1912, to March 31, 1913			2 65	954 84	
	Salaries	1 50		3 55	1,027 44	1,027 44
	Eastern Dominion Inspector.					
Lambe, A. B.	Contingencies				291 00	291 00
	Western Dominion Inspector.					
Higman, O., Jr.	Contingencies				42 80	12 80

APPENDIX B—*Continued.*

No. 7.—DETAILS of Gas Inspection Expenditures for the Year ended March 31, 1913—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
	General Contingencies.	$ cts.	$ cts.
American Bank Note Co.	Stamps supplied	70 00	
Pritchard & Andrews Co., Ltd., The	Stamps and general repairs	177 55	
Canadian Consolidated Rubber Co	Rubber hose and rubber tubing	247 20	
Harrison & Co	39 glass jars	97 50	
Lymans, Ltd	2 gros. lead books	11 20	
Canadian Express Co., The	Express charges	0 35	
Bruyea, C.	Supplies and repairs	14 80	
Collector of Customs	Duty on imported goods	22 30	
Dominion Express, The	Express charges	4 86	
Shaeffer & Budenberg Mfg. Co., The	12 Syphons, "U" gauge, &c	50 55	
Wright, Alex. & Co	3 doz. gauges	112 32	
Pinhey & Co	Brokerage on customs entries	1 00	
Himsworth, W	Paid for express charges, &c	14 38	
	Total gas contingencies		824 01
	ADD—Printing	4,111 78	
	Stationery	1,071 61	
			5,183 39
	Grand total		49,982 33
	ADD—Balances due by Inspectors March 31, 1913		212 88
			50,195 21
	LESS—Balances due by Inspectors April 1, 1912		212 88
	Actual disbursements (less superannuation, retirement and guarantee) agreeing with statement No. 21, page 54		49,982 33

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No 8.– Details of Electric Light Expenditures for the Year ended March 31, 1913.

To whom paid.	Service.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Belleville.	$ cts.	$ cts.	$ cts
Fraser, H	Salary as Inspector for the year	7 20	992 76	
Johnson, C. W.	" Asst. Inspector from July 4 to Sept. 30, 1912 and transferred as Inspector to Saskatoon Oct. 1, 1912 to March 31, 1913	0 43	35 86	
		7 63	1,028 62	
	Contingencies		471 42	1,500 04
	Fort William.			
Little, E	Salary as Inspector from Jan. 1 to March 31, 1913.	0 73	241 43	
	Contingencies		139 16	383 59
	Hamilton.			
Lutz, H	Contingencies			673 88
Kinsman, E. A.	Salary as assistant Inspector, at large, now attached to the Hamilton district.	0 51		330 61
	London.			
Nash, A. F	Contingencies			471 74
	Ottawa.			
Roche, H. G	Contingencies			681 80
	Toronto.			
Stiver, J. L.	Contingencies			1,001 19
	Montreal.			
Aubin, A.	Contingencies			1,165 89
	Quebec.			
Levasseur, N.	Contingencies			495 21
	Sherbrooke.			
Simpson, A. F	Contingencies			162 86
	St. Hyacinthe			
Provost, I. E.	Salary as Inspector for the year	1 80	298 20	
	Contingencies		93 40	391 60
	Three Rivers.			
Robitaille, G. W.	Salary as Inspector for the year	1 80	498 20	
	Contingencies		235 02	733 22
	St. John.			
Wilson, J. E	Contingencies			223 50
	Halifax.			
Toale, J	Contingencies			531 1

APPENDIX B—*Continued.*

No. 8.—Details of Electric Light Inspection Expenditures for the Year ended March 31, 1913—*Continued.*

To whom paid.	Service.	Deductions for Guarantee.	Amounts paid.	Total amounts paid.
	Charlottetown.	$ cts.	$ cts.	$ cts.
Bell, J. H.	Contingencies			115 72
	Winnipeg.			
Hamilton, R.	Contingencies			3,227 88
	Calgary.			
Kyle, W. P.	Salary as Inspector for the year	3 60	1,196 40	
Jones, Bruce	" Asst. Inspector from Oct. 10, 1912 to Mar. 31, 1913	0 90	599 10	
	Salaries	4 50	1,795 50	
	Contingencies		413 67	
				2,209 17
	Edmonton.			
Roe, E. A.	Salary as Inspector for the year	3 60	1,296 40	
	Contingencies		249 39	
				1,745 79
	Regina.			
Hunter, W. M.	Salary as Inspector for the year	3 60	1,296 40	
	Contingencies		1,603 42	
				2,899 82
	Vancouver.			
Stott, J.	Salary as Inspector for the year	3 60	1,596 36	
Templeton, W. A.	" Asst. Inspector for the year	3 60	1,146 36	
Power, O. S.	" " "	1 80	1,048 20	
Scouler, G. T.	" " from July 1, 1912 to March 31, 1913	1 35	898 65	
	Salaries	10 35	4,689 57	
	Contingencies		1,548 55	
				6,238 12
	Victoria.			
Dresser, F.	Contingencies			159 45
	Yukon.			
Macdonald, J. F.	Salary as Inspector for the year	3 60		496 40
	Eastern Dominion Inspector.			
Lambe, A. B.	Salary as Dominion Eastern Inspector for the year	3 60	2,471 38	
	Contingencies		186 85	
				2,658 23
	Western Dominion Inspector.			
Higman, O., Jr.	Salary as Dominion Western Inspector for the year	3 60	2,471 38	
	Contingencies		991 78	
				3,463 16
	Chief Electrical Engineer.			
Higman, O., Sr.	Contingencies			1,292 26

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 8—Details of Electric Light Inspection Expenditures for the Year ended March 31, 1913—*Concluded.*

To whom paid.	Service.	Amounts paid.	Total amounts paid.
		$ cts	$ cts.
American Bank Note Co	Stamps supplied	7 70	
Canadian General Elec. Co., Ltd	Electrical instruments, supplies, &c., for laboratory	2,718 40	
Western Electrical Instrument Co		1,069 58	
Twisley & Co., H.		865 54	
Canadian Westinghouse Co., Ltd.		181 90	
Wright A., & Co., Ltd		134 41	
Electrical Testing Laboratories		48 15	
Reason Manufg. Co., Ltd., The		233 49	
Sugg, W., & Co., Ltd.		121 22	
Kelorn & White, Jas.		761 05	
Crompton & Co., Ltd.		1,504 58	
Collector of Customs	Duty on imported goods	702 47	
Pritchard & Andrews Ltd., The	Stamps and general repairs	37 14	
Ahearn & Soper	Supplies	8 00	
Simplex Electric & Heating Co	Transmitters	79 1	
Smith, S., & Son's	Ordinary supplies and batteries	185 32	
Hegarty, Chas.	Brokerage for customs entries	6 96	
Pinhey & Co.		6 70	
Cutter Electrical Manfg. Co.	Current coils	7 72	
Thorton & Truman	General repairs	2	
American Express Co.	Express charges	1 10	
Himsworth, W	Travelling expenses, &c.	21 50	
	Total Electric Light Inspection		8,700 9
	International Electrical Commission		241 16
	XIII—Printing	223 68	
	Stationery	246 47	
			470 15
	Grand total		12,067 59
	Less balance held by Inspector, April 1, 1912.		300 00
	Actual disbursements (less guarantee) agreeing with Statement No. 24, page 38		12,367 59

Inland Revenue Department,
Ottawa, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B—*Continued.*

STATEMENT No. 9—Showing the amount paid during the Year 1912–13 to different companies for guaranteeing outside officers of the Inland Revenue Department.

	Amounts paid.	
	$ cts.	
The Railways Passenger Assurance Co	196 32	
The Imperial Guarantee and Accident Insurance Co	487 46	
The Dominion of Canada Guarantee and Accident Co	420 46	
The Guarantee Co. of North America	445 79	
The London Guarantee and Accident Assurance Co	181 61	
The Employers Liability Assurance Corporation	466 30	
Total		2,197 94

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX B—*Continued.*

No. 10. List of Permanent Employees of the Inland Revenue Department employed on salary, during the year ended March 31, 1913.

Names.	Services.						
	Inspection.	Examining.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Abbott, H. F.		1					
Adams, A. R.		1					
Alexander, Thos.		1					
Allen, A. T.	1						
Allen, G. A.		1					
Altemar, Peter J.		1					
Amor, Wm.		1					
Andrews, A. A.		1					
Arcand, D.		1					
Archambault, J. E.			1				
Armstrong, T. E.		1					
Armstrong, Walter	1						
Aubin, A.				1	1		
Aubin, C.				1	1		
Auger, L. H.		1					
Babington, F. C.				1	1		
Baby, W. A. D.		1					
Barkie, D.		1					
Ballantyne, A.		1					
Barbeau, L.							
Barber, J. S.		1					
Barnes, G.		1					
Barrett, J. K.		1					
Barrett, J. P.		1					
Barry, James			1				
Bayard, Gilbert A.		1					
Beard, Miss M. H.	1						
Beasley, M. C.		1					
Beauchamp, Dr. L. E.			1				
Beaulac, J. H.			1				
Beaulieu, J. B.		1					
Belair, A. (Plessis dit)		1					
Beland, F. X. W. E.				1	1		1
Bell, J. H.				1	1		
Bellepereche, A. J. E.		1					
Belyea, T. H.		1					
Benetean, S.		1					
Bennett, James		1					
Benoit, L. V.		1		1			
Bergeron, E. L.		1					
Bergeron, R. J.		1					
Bernard, N. J. D.		1					
Bernier, Jean A.			1				
Bernier, J. Auguste		1					
Berry, H. L.		1					
Bezaire, T. M.			1				
Buckle, J. W.		1		1			
Bissell, C. H.		1					
Blackman, C.		1					
Blethen, C. W.		1					
Blyth, Alex.		1					
Bolduc, Ephrem			1				
Bond, M. B.				1			
Boomer, J. B.		1					
Boudet, E.			1				
Bourgeois, E.	1						
Bourget, L. J.			1				
Bourget, O.		1					
Bousquet, A.		1					

APPENDIX B—*Continued.*

No. 10.—List of Permanent Employees of the Inland Revenue Department, 1912—1913—*Continued.*

Names.	Services.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Bousquet, J. O.		1					
Bouteiller, G. A.		1					
Bowen, F. C.		1		1	1		
Bowman, Allan		1					
Boyd, J. F. S.		1					
Boyle, P.		1					
Branbant, J. B. G. N.		1					
Breen, John			1				
Brennan, John		1					
Bridgman, M. W		1					
Broadfoot, S.		1		1			
Brodeur, P. E. S.	1						
Brown, W. J		1					
Bruce, G. B.		1					
Burgess, T.	1						
Burke, T.		1					
Burns, R. J.		1					
Byrne, W. P.		1					
Cahill, J. W.		1					
Caldwell, A. B			1				
Cameron, D. M.		1					
Campbell, A. E.		1					
Cantin, J. W. Z.	1						
Carroll, D		1					
Carroll, F. P.		1					
Casey, F. J.		1					
Caven, W		1					
Chagnon, C. P.		1					
Chartier, Etienne		1					
Chateauvert, G. E.	1						
Cheseldine, J. H		1					
Chilver, F. W.		1					
Chisholm, J. J.			1				
Chisholm, W. N.		1					
Clark, H. M.				1	1		
Clark, James Alfred		1					
Clarke, Thomas		1					
Clegg, Jos			1				
Codd, Herber J. S.		1					
Code, Abraham		1					
Cole, N. R	1						
Coleman, Charles		1					
Coleman, J. J.		1					
Coles, F. H		1					
Comte, L. A. A. J.		1					
Conklin, W. M.		1					
Cook, W. J.		1					
Cook, W. R		1					
Costello, J. W.			1				
Costigan, J. J.		1					1
Coughlin, D.			1				
Coulter, Alex		1					
Courtney, J. J.		1					
Coutts, J. J.		1					
Crevier, J. H.		1					
Cryderman, C. W.		1					
Cruickshank, J. L.			1				
Cummiford, F. D.		1					

APPENDIX B—*Continued.*

No. 10—List of Permanent Employees of the Inland Revenue Department, 1912-1913—*Continued.*

Names.	Services.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Coal Inspection.
Carrie, W. W.		1					
Dager, H. J		1					1
Dalton, M. J		1					
Daoust, J. A.			1				
Daveluy, J. P		1					
David, T		1					
Davis, T. G		1					
Davy, Edward			1				
Dawson, W		1					
Deely, F		1					
Dennis, F. C.				1	1		
Desaulniers, J. E. A		1					
Dessert, V			1				
Dingman, N. J		1					
Dixon, H. G. S		1					
Dontigny, H		1					
Doyle, R. J.		1					
Doyle, E. F	1						
Doyon, J. A	1						
Dunkame, J. D.		1					
Dambrille, R. W.		1					
Dumontier, J. A		1					
Dumouchel, Leandre		1					
Dunbar, G. E.		1					
Dunlop, C		1					
Duplessis, C. Z		1					
Dustan, W. M			1				
Dutton, A. H			1				
Dwyer, D. T		1					
Eakins, G. G		1					
Earl, R. W.		1					
Egener, A		1					
Elliott, T. H		1					
Elliott, W. J.		1					
Evans, C. J	1						
Evans, G. T.		1					
Fahey, Ed		1					
Fairley, W		1					
Falconer, James		1					
Falconer, R. H.		1					
Farmer, R. C.		1					
Ferguson, John C		1					1
Fiddes, James		1					
Fidler, H		1					
Fielding, Laura G.		1					
Filteau, J. R.		1					
Findlay, R.			1				
Fitzgerald, E. W			1				
Fitzpatrick, W. J.		1					
Fletcher, R. W.		1					1
Floody, E.						1	
Forest, E. R		1					
Forster, E. L. C	1						
Forsyth, D		1					
Forward, C. C.	1						
Foster, J. Henry		1					
Fournier, L. A.			1				
Fowler, George	1						
Fox, J. D.		1					

APPENDIX B—*Continued.*

No. 10—List of Permanent Employees of the Inland Revenue Department, 1912-1913—*Continued.*

Names.	Services.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive	Food Inspection.
Fox, Thomas		1					
Francœur, A		1					
Frankland, H. R		1					
Fraser, H				1	1		
Fraser, P		1					
Freeland, Anthony		1					
Furlong, C. J	1						
Galipeau, J. B. N			1				
Gallagher, T			1	1	1		
Gamache, J. N		1					
Gariepy, L. N		1					
Gauvin, E		1					
Geldart, O. A		1					
George, John		1					
Gerald, C		1					
Gerald, W. H		1					
Gerald, W. J	1						
Gervais, J. A		1					
Gervais, J. H	1						
Gilby, W. F			1				
Gillies, Archibald L		1					
Gilpin, R. R		1					
Girard, Iréné		1					
Goodhue, M. L. E. B	1						
Gorman, Arthur M		1					
Gosnell, T. S		1					
Goudie, D. A		1					
Gow, J. E		1					
Graham, A. L		1					
Graham, W. J		1		1			
Graham, W. T		1					
Grant, C. D			1				
Grant, H. H		1					
Grant, W. M			1				
Granton, C		1					
Gray, R. S		1					
Graveline, D. P		1					
Greig, W. G		1					
Gregor, R. W		1					
Griffin, P. F		1					
Griffith, M. L	1						
Grimason, Thomas		1					
Grosbois, (de), Chas. B		1					
Guay Alp			1				
Hagerty, B	1						
Halliday, W. A	1						
Hambley, S. E		1					
Hamilton, R				1	1		
Hammond, T. W		1					
Hanley, A		1					
Hanlan, J. R		1					
Harris, W. H			1				
Harwood, J. O. A		1					
Hayhurst, T. H		1					
Hébert, C. D		1					
Hébert, J. A			1				
Helliwell, H. N		1					
Henderson H. D. G		1					

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 10—List of Permanent Employees of the Inland Revenue Department, 1912—1913—*Continued.*

Names.	Services.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Hesson, C. A		1					
Hicks, W. H		1		1			
Higman, O	1						
Higman, O., Jr				1	1		
Himsworth, Wm	1						
Hinchey, E. H			1				
Hiscott, J. O		1					
Hogan, James		1					1
Howell, Thomas		1					
Howie, A		1					
Howson, G. H			1				
Hubley, H. H		1					
Hudon, L. E		1					
Huggett, A. P		1					
Hughes, Henry			1				
Hughes, P. A	1						
Hughes, R. A			1				
Hunter, W. M				1	1		
Hurst, Levi, B		1					
Iler, E		1					
Ivery, W. J		1					
James, T. C		1					
Jamieson, S. B		1					
Jamieson, R. C		1					
Jeffrey, A. J		1					
Johnson, J. J		1					
Johnston, C. W			1	1	1		
Johnston, H. J		1					
Johnston, E. J. A		1					
Johnstone, S. F				1	1		
Jones, Andrew		1					
Kearney, D. J		1					
Keay, W. S		1					
Kelly, J. T						1	
Keogh, P. M		1					
Kidd, Thomas							1
King, R. M		1					
Kirkpatrick, H. J		1					
Kitto, W. V	1						
Knowles, C			1				
Kylie, R			1				
Ladouceur, J	1						
Ladouceur, J. A			1				
Latlamme, J. L. K	1						
Laidman, Richard H			1				
Lally, J. E		1					
Lambe, A. B				1	1		
Lambert, J. A		1					
Lamoureux, J. A		1					
Lane, T. M		1					
Langelier, François		1					
Laporte, Geo		1					
Larivière, A. C		1					1
LaRue, Alexandre		1					
Laurier, J. L		1					
Lawless, E. M	1						
Lawlor, H		1					

APPENDIX B—*Continued.*

No. 10—List of Permanent Employees of the Inland Revenue Department, 1912-1913—*Continued.*

Names.	Services.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Lawlor, John J		1					
LeBel, J. A. W			1				
Leblanc, F. X			1				
Leckie, T. L	1						
Lee, Edward		1					
Lemoine, A	1						
Lemoine, Jules		1					
Lespérance, J. A		1					
Lessard, A			1				
Le Vasseur, N				1	1		
Lewis, H. B	1						
Liddle, D			1				
Long, W. H. A		1					
Longtin, H		1					
Love, G. G		1					
Lyon, A. V	1						
Lyons, E		1					
Macdonald, A. B		1					
Macdonald, G		1					
Macdonald, J. A			1				
Macdonald, J. F		1	1		1		
Mackay, J. C		1					
Mackenzie, J. H		1					
MacLean, C. E				1			
MacLean, D. J				1			
Mainville, C. P		1					
Male, Thomas				1			
Mann, W				1	1		
Maranda, N. A		1					
Marin, L. H		1					
Marion, H. R		1					
Marshall, R			1				
Martin, N		1					
Martineau, O. E. J		1					
Mason, F		1					
Maurice, E		1					
Mathews, E. D. K	1						
Melville, T. R		1					
Miller, J. E		1		1	1		
Miller, W. F		1					
Miller, Elie		1					
Milliken, E		1					
Milot, J. F		1					
Mitchell, J. L		1					
Morforton, E		1					
Montgomery, W. H		1					
Mooney, G. B		1					1
Moore, T		1					1
Margan, E. J		1					
Morin, J. P			1				
Morris, T. H		1					
Munro, H. D		1		1	1		
Murdoch, James			1				
Murphy, F. C				1	1		
Murray, David		1					
McArthur, G. H		1					
McConvey, J			1				
McCullough, A	1						
McCutcheon, H		1					
McFee, C		1					

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 10.—List of Permanent Employees of the Inland Revenue Department, 1912-1913—*Continued.*

Names.	Services.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
McGill, A	1						
McGowan, J		1					
McGuire, L. J		1					
McGuire, T		1					
McKay, R			1				
McKell, M. E. E	1						
McLenaghan, N		1					
McNaughton, J. C		1					
McNiven, J. D		1					
McPherson, E. A		1					
McPhie, Donald				1	1		
McSween, James		1					
Nash, A. E				1	1		
Neil, James		1					
Newsome, I		1					
Nicholl, F. A		1					
Niven, T. D		1					
Nooman, H. T		1					
Nooman, J. M		1					
Normandin, G		1					
O'Brien, E. C		1					
O'Brien, James		1					
O'Brien, W			1				
O'Brien, J. E		1					
O'Donnell, J		1					
O'Donnell, M. J		1					
O'Donohue, M. J		1		1			
O'Flaherty, M. J				1	1		
Ogden, G. J							
O'Leary, T. J		1					
Oliver, J. T		1					
Olivier, H		1					
Orr, Henry N		1		1			
Ostigny, L. R	1						
O'Sullivan, D		1					1
Panneton, G. E		1					
Pape, James				1	1		
Parent, F	1						
Parker, Thomas			1				1
Parkinson, Edward B		1					
Patterson, C. E. A		1					
Pleasance, W		1					
Poitras, Wilfrid		1					
Popham, F. H	1						
Portelance, P. A		1					
Powell, J. B		1		1			
Power, J. F		1					1
Power, O. S				1	1		
Prefontaine, F. H			1				
Provost, I. E					1		
Quain, Redmond	1						
Quinn, J. D		1					
Reesor, M. W				1	1		
Relihan, Jas		1					
Renahan, M. J				1			
Renaud, A. H		1					
Rennie, George		1		1			
Richard, J. B. T		1					
Rickey, J. A	1						

APPENDIX B—*Continued.*

No. 10—List of Permanent Employees of the Inland Revenue Department, 1912-1913—*Continued.*

Names.	Services.						
	Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Ridgman, A. H		1					
Ritchie, H		1					
Robins, S. W			1				
Robert, A	1						
Robillard, G. A		1					
Robitaille, G. W					1		
Roche, H. G				1	1		
Roche, W. J				1			
Roe, E. A					1		
Rork, T		1		1			
Rose, John A		1					
Ross, H. E		1					
Rouleau, C. E		1					
Rouleau, J. C., jr		1					1
Rousseau, Elzéar H		1					
Rowan, W. E		1					
Roy, C. E			1				
Roy, L	1						
Roy, L. G	1						
Saucier, X		1					
Scanlan, T. J		1					
Schram, R. L. H		1					
Schuler, F. C		1					
Scullion, W. J		1					
Sealey, J. C			1				
Shanacy, M		1		1	1		
Shaw, J		1	1	1			
Shaw, J. F	1						
Shorey, A. B		1					
Simpson, A. F		1		1	1		
Simpson, G		1					
Simpson, W. A		1					
Skelton, A. R				1	1		
Slattery, Thomas			1				
Sloan, W		1					
Smith, B. H		1					
Smith, J. C			1				
Snowdon, J. W		1					
Sparling, J. W		1					
Spence, F. H		1					
Spicer, H			1				
Sprague, F. W		1					
Standish, J. G		1					
Stiver, J. L				1	1		
Stott, James				1	1		
Sutherland, W		1					
St. Michel, F. X		1					
Sykes, W. J		1					
Talbot, John		1					1
Taylor, G. W	1						
Teevens, L. P	1						
Templeton, W. A				1	1		
Thérien, J. F			1				
Thomas, J. S			1				
Thomas, F. W		1					
Thomas, Robert		1					
Thorborn, J		1					
Thrasher, W. A		1		1			
Thurber, G		1					

SESSIONAL PAPER No. 12

APPENDIX B—*Continued.*

No. 10.—List of Permanent Employees of the Inland Revenue Department, 1912-1913—*Concluded.*

Names.	Services.						
	Inside	Excise	Weights and Measures.	Gas.	Electric Light Inspection.	Preventive.	Food Inspection.
Till, T. M.		1					
Timmons, R.		1					
Toale, J.				1	1		
Tobin, Thomas S.		1					
Tomlinson, W. M.			1				
Tompkins, P.		1					
Toupin, J. A.		1					
Tracy, J. P.		1					
Trumpour, G.	1						
Tytler, J. M.		1	1	1	1		
Valin, J. E.	1						
Valin, J. A. G.	1						
Verner, Thomas H.		1					
Waddell, S. J.		1					
Walker, J. H., jr.		1					
Walsh, Daniel J.		1					
Walsh, W. H.		1					
Watson, V. M.	1						
Walton, G.			1				
Waugh, R. J.			1				1
Way, E. O.	1						
Webbe, C. E. A.		1					
Weeks, W. A.		1					
Westman, T.	1						
Wheatley, Alfred E.			1				
White, H. E.			1				
White, J. B.		1					
Whitehead, J. P.		1					
Wilson, David		1					
Wilson, H. R.		1					
Wilson, J. C.			1				
Wilson, J. E.				1			
Wink, J. C.		1					1
Withers, S. W.				1	1		
Wolfenden, William		1		1			
Wood, C. T.		1					
Wood, James A.		1					
Woodward, G. W.		1					
Wright, Robert J.			1				
Wright, S. E.	1						
Yetts, R. P.	1						
Young, J. J.		1					
Young, R. E.		1					
Totals	57	343	72	57	41	2	10

APPENDIX B—*Continued.*

No. 11.—List of Permanent Employees of the Inland Revenue Department employed on salary, during only a portion of the Year ended March 31, 1913.

Names.	Period.	Services.				
		Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.
Archambault, F. X.	From November 7 to March 31, 1913	....	1	....	....	....
Bélanger, S. F.	" August 1, 1912 to March 31, 1913	....	....	1	....	....
Belisle, E.	" April 1 to July 31, 1912	1	....	....	....	....
Bernatchez, A.	" December 1, 1912 to March 31, 1913	....	....	1	....	....
Blandford, E. B.	" March 1 to March 31, 1913	....	....	....	1	1
Boucher, A.	" March 1 to March 31, 1913	....	....	....	1	1
Bourgeois, C.	" April 1 to April 30, 1912	....	1	....	....	....
Boyd, S. I.	" April 1 to December 31, 1912	....	1	....	....	....
Brain, A. F.	" April 1 to July 3, 1912	....	1	....	....	....
Brick, J. H.	" July 27, 1912 to March 31, 1913	....	....	1	....	....
Butler, F. H.	" April 1 to July 31, 1912	....	....	1	....	....
Cahill, J. H.	" April 1 to October 31, 1912	....	1	....	....	....
Campeau, F. R. E.	" April 1 to Nov. 30, 1912	1	....	....	....	....
Chenier, E.	" July 1, 1912 to March 31, 1913	....	....	1	....	....
Champagne, J. A.	" December 1, 1912 to March 31, 1913	....	....	1	....	....
Chapleau, J. R.	" December 1, 1912 to March 31, 1913	....	....	1	....	....
Chisholm, J. A.	" January 1 to March 31, 1913	....	1	....	....	....
Church, G. C.	" April 1 to June 30, 1912, and from March 8 to March 31, 1912	....	1	....	....	....
Clements, R. A.	" January 1 to March 31, 1913	....	1	....	....	....
Cook, John	" April 1 to October 31, 1912	....	....	1	....	....
Couvrette, A. A.	" June 11, 1912 to March 31, 1913	....	....	....	1	....
Deland, A. N.	" April 1 to October 31, 1912	....	1	....	....	....
Delorme, O. C.	" December 1, 1912 to March 31, 1913	....	....	1	....	....
Desroches, L.	" August 1, 1912 to March 31, 1913	1	....	....	....	....
Diamond, F. D.	" January 13 to March 31, 1913	....	....	1	....	....
Dillon, D. H.	" August 1, 1912 to March 31, 1913	....	....	1	....	....
Dowling, D. J.	" April 1, 1912 to February 28, 1913	....	1	....	....	....
Doyle, F. S.	" March 1 to March 31, 1913	....	1	....	....	....
Dresser, F.	" July 6, 1912 to March 31, 1913	....	....	....	1	1
Duchesne, N.	" December 1, 1912 to March 31, 1913	....	....	1	....	....
Dutton, A. H.	" December 1, 1912 to March 31, 1913	....	....	1	....	....
Egan, W.	" April 1 to November 30, 1912	....	1	....	....	....
Fagan, P. J.	" January 1 to March 31, 1913	....	1	....	....	....
Fletcher, F. W.	" June 1, 1912 to March 31, 1913	....	1	....	....	....
Fournier, L. A.	" June 1, 1912 to March 31, 1913	....	....	1	....	....
Fyfe, Jas.	" April 1 to July 31, 1912	1	....	....	....	....
Gilbert, A.	" August 1, 1912 to March 31, 1913	....	1	....	....	....
Goodman, A. W.	" April 1, 1912 to February 28, 1913	....	1	....	....	....
Gosselin, Miss B.	" July 1, 1912 to March 31, 1913	1	....	....	....	....
Hayward, A. C.	" December 1, 1912 to March 31, 1913	....	....	1	....	....
Hodgins, G. C.	" December 1, 1912 to March 31, 1913	....	....	1	....	....
Hodgins, H. A.	" April 1 to June 30, 1912	....	....	1	....	....
Howard, W. W. S.	" April 1 to October 31, 1912	....	1	....	....	....
Jephson, W. J.	" November 16, 1912 to March 31, 1913	....	1	....	....	....
Johnson, W.	" June 1 to October 30, 1912	....	....	....	1	1
Johnston, C. W.	" July 4, 1912 to March 31, 1913	....	....	....	1	....
Jones, B. B.	" October 1, 1912 to March 31, 1913	....	....	....	1	1
Keeler, G. S.	" April 1, 1912 to January 31, 1913	....	1	....	....	....
Kinsman, E. A.	" December 12, 1912 to March 31, 1913	....	....	....	1	1
Labelle, L. V.	" April 1 to August 13, 1912	....	1	....	....	....
Leblanc, O. J. O.	" August 1, 1912 to March 31, 1913	....	....	1	....	....
Lefebvre, A.	" April 6, 1912 to March 31, 1913	....	1	....	....	....
Little, E.	" January 18 to March 31, 1913	....	....	....	1	1
Lutz, H.	" October 16, 1912 to March 31, 1913	....	....	....	1	1
MacGregor, D. N.	" May 13, 1912 to March 31, 1913	....	1	....	....	....
Mackay, J. C.	" September 16, 1912 to March 31, 1913	....	1	....	....	....
Mackinnon, J. W.	" December 1, 1912 to March 31, 1913	....	....	1	....	....
Mainville, P. C.	" November 1, 1912 to March 31, 1913	....	1	....	....	....
Mantha, J. A.	" March 1 to March 31, 1913	....	1	....	....	....

APPENDIX B—*Continued.*

No. 11.—List of Permanent Employees of the Inland Revenue Department employed on Salary, during only a portion of the Year ended March 31, 1913.—*Concluded.*

Name.	Period.	Services.				
		Inside.	Excise.	Weights and Measures.	Gas.	Electric Light Inspection.
Marin, N. H.	From April 1 to March 31, 1912		1			
Mather, A. P.	" April 1, 1912 to March 31, 1913		1			
Mercier, C. A.	" December 1, 1912 to March 31, 1913		1			
Milligan, R. J.	" April 1 to November 30, 1912			1		
Mills, A. F.	" March 7 to March 31, 1913				1	
Moynahan, J.	" December 17, 1912 to March 31, 1913		1			
McCloskey, J. R.	" April 1, 1912 to February 28, 1913		1			
McConnell, W. J.	" May 9 to August 31, 1912			1		
McCoy, W.	" April 1, to October 31, 1912		1			
McDonald, A. J.	" April 1 to July 31, 1913		1			
McDonald, J.	" May 1 to March 31, 1913		1			
McEachern, C. A.	" December 1, 1912 to March 31, 1913			1		
McIntosh, W.	" February 13 to March 31, 1913			1		
McPhie, W. H.	" April 1 to May 31, 1912				1	1
Parent, E.	" July 8, 1912 to March 31, 1913		1			
Patry, J. H.	" April 1, 1912 to January 31, 1913		1			
Pelletier, N. G.	" April 1 to October 31, 1912		1			
Pitman, C.	" April 1 to May 6, 1912		1			
Publow, W. J.	" April 1 to July 8, 1912		1			
Richardson, W.	" August 1, 1912 to March 31, 1913		1			
Ross, W. A.	" September 1, 1912 to March 31, 1913				1	
Scourer, G. T.	" July 1, 1912 to March 31, 1913				1	1
Shaw, J. B.	" August 1, 1912 to March 31, 1913		1			
Stratton, W. C.	" April 1 to October 31, 1912		1			
Traverton, C. B.	" January 1 to March 31, 1913		1			
Trumpour, F. T.	" December 1, 1912 to March 31, 1913			1		
Wilson, H. H.	" January 22 to March 31, 1913				1	1
Wilson, W. A.	" April 1 to November 30, 1912			1		
Withinshaw, E.	" April 1 to July 31, 1912		1			
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No. 12.—NUMBER of Permanent Employees of the Inland Revenue Department and the different services in which they were employed, during the Year ended March 31, 1913.

RECAPITULATION.

Employed during the year	512
" a portion of the year	88
Total	600

SERVICES.

Inside	62
Excise	354
Weights and Measures	91
Gas	12
Electric Light	3
Preventive	2
Food	1
Excise, Weights and Measures and Gas	1
" and Gas	11
" Gas and Electric Light	6
" and Food	12
" Weights and Measures, Gas and Electric Light	1
Weights and Measures, Gas and Electric Light	2
" " " " and Food	2
Gas and Electric Light	39
Gas, Electric Light and Food	1
	600

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

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REPORTS, RETURNS AND STATISTICS

OF THE

INLAND REVENUES

OF THE

DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1913

PART II

WEIGHTS AND MEASURES, GAS AND ELECTRICITY

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
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1913

[No. 13—1914]

REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

ON THE

INSPECTION OF WEIGHTS AND MEASURES, GAS AND ELECTRICITY

To the Honourable
The Minister of Inland Revenue.

SIR,—I have the honour to submit herewith my annual report on the inspection of weights and measures, gas and electricity, with the usual statements in connection therewith for the fiscal year ended March 31, 1913.

1. The total revenue collected during the year for the inspection of weights and measures, was $100,696.52 as against $107,408.60 collected during the twelve months ended March 31, 1912.

2. The total expenditure was $131,344.71, as against $124,256.83 expended during the year ended March 31, 1912.

3. Appendix 'A' gives a summary statement of the receipts and expenditures of each inspection division.

4. In Appendices 'B,' 'C' and 'D' will be found a detailed statement of weights, measures and weighing machines presented for verification, verified and rejected during the year. The number of all descriptions may be summarily stated as follows:—

	Presented.	Verified.	Rejected.	Percentage of Rejections.
Weights, Dominion	61,502	61,165	337	·546
Measures of capacity, Dominion	144,293	144,258	35	·003
Lineal measures	10,880	10,831	49	·453
Balances, equal arms	12,204	11,994	210	1·720
" steelyards	5,044	4,981	63	1·248
" platform scales	44,905	43,760	1,145	2·551
Miscellaneous weights	2,461	2,456	5	·203
" measures of capacity	11,365	11,045	320	2·815
" balances	66,414	66,184	230	·346

5. The decrease in revenue shown in par. 1, above, is mainly due to the fact that the past period included nine months of the annual inspection work for 1912, and therefore comparison should not be made with the biennial fiscal year ending March 31, 1912, but with the previous annual inspection period ending March 31, 1911, the revenue for which was $98,661.80, showing an increase of revenue for the past annual period of $2,024.72.

6. The increase in expenditure is due to the fact that practically the same immense territory has to be journeyed to perform annual inspection as biennial inspection, whilst expenses for the cartage and transportation of inspectors' standards and equipment is more largely borne by the Service.

An additional item of expense to the extent of $2,432.43 was also incurred by the purchase of new standards, mentioned below, for the equipment of the W. & M. Standards Branch.

7. I might here remark that there is throughout the Dominion, amongst the public, scale manufacturers, retail and wholesale merchants, and elevator interests, an intense and growing demand for more efficient and more frequent W. & M. Inspection, and also for considerable reduction in the inspection fees collected. It would seem then that the time has come when the deficit incurred by the W. & M. Service must be accepted as an administrative obligation, and as one that must necessarily increase and be provided for in the interests of the stability and integrity of Canadian commerce.

8. The following is a list of the standards, balances and weights above referred to provided, as in the case of the standards of 1874, from L. Oertling, of London, England.

Standard Weights—

One set Troy Standards, 500 ozs. down to ·001 oz.
One set Avoirdupois Standards, 50 lbs. down to ½ dram.
One set Metric Standards, 20 kgs. down to ·05 mg.

Balances—

One Bullion Balance to carry 1,000 ozs. Troy in each pan, and sensitive to ·1 grain.
One Bullion Balance to carry 500 ozs. Troy in each pan, and sensitive to ·1 grain.
One Bullion Balance to carry 200 ozs. Troy in each pan, and sensitive to ·01 grain.
One Assay Balance to carry 2 grammes in each pan, and sensitive to ·005 mg., or the ·000077 grain.

These standards are stamped by the Board of Trade, England, and accompanied with certificates of verification, showing in the case of each weight its exact weight in vacuo to the fourth and fifth decimal of the grain, and have been procured as the primary reference standards of the department, and to supplement those which have been in use since 1874.

The fine assay balance has been procured in order that the Standards Branch may be in a position to verify with the requisite accuracy, the assay standards used in the annual trial of the Pyx at the Canadian Royal Mint.

Each of the above standards have been designated by the letter "C."

Inspection of Gas.

9. The total revenue collected during the twelve months ended March 31, 1913, for the inspection of gas and gas meters, was $62,747.40 as compared with $51,356.25 collected during the year ended March 31, 1912.

10. The total expenses were $50,253.49 as against $45,232.47 expended during the year ended March 31, 1912.

11. Appendix 'E' gives a summary statement of the receipts and expenditures of each gas inspection district.

12. A statement of the illuminating power and purity of gas inspected during the year will be found in Appendix 'F.'

13. The illuminating power, where inspection has been made, has been as follows:—

Places.	Number of tests made.	Number of times below Standard	Places.	Number of tests made.	Number of times below Standard.
Barrie	12		St. Catharines	12	
Belleville	10		St. Thomas	24	
Berlin	12		Toronto	106	
Brockville	11		Windsor		
Cobourg	12		Woodstock	12	
Cornwall	18		Montreal	104	
Deseronto	0		Quebec	12	
Guelph	12		Sherbrooke	6	
Hamilton	15		St. Hyacinthe	12	
Ingersol	12		Fredericton		
Kingston	12		Moncton	4	
Listowel	12		St. John, N.B	10	
London	104		Halifax	12	
Napanee	5		Yarmouth	12	
Ottawa	104	34	Charlottetown	15	
Owen Sound	12		Winnipeg	104	11
Peterborough	24		Nanaimo	12	
Port Hope	11		New Westminster	12	
Sarnia			Vancouver	52	17
Stratford	12		Victoria	8	4

The revenue derived from the inspection of electricity was as follows:—

Fees for inspection of meters, &c		$74,833 80
The expenses of inspection (annual)	$33,767 75	
Expended on standard instruments, and maintenance of equipment	8,945 13	
		42,712 88
Leaving a net revenue of		$32,120 92

Since the year 1896-97 the two services of gas and electricity inspection, which are conducted largely by the same staff of officers, have reached that point at which they have ceased to be a burden upon the general taxpayer, as shown below :—

Years.	Gas and Electricity.	
	Revenue.	Expenditure.
	$ cts.	$ cts.
*1899-1900	35,523 50	26,424 48
1900-01	37,536 57	28,247 20
1901-02	43,663 05	33,328 48
1902-03	49,054 55	36,006 47
1903-04	50,218 75	33,426 15
1904-05	62,561 37	34,774 02
1905-06	76,539 00	38,917 48
1906-07	57,868 18	30,793 84
1907-08	86,552 20	48,831 75
1908-09	92,450 21	54,018 71
1909-10	100,647 20	55,514 14
1910-11	112,150 25	63,385 03
1911-12	117,917 45	80,537 87
1912-13	138,090 95	93,000 82

* Exclusive of cost of standard instruments.

It will be observed that the reduction of fees in connection with the Gas and Electricity Inspection service made in 1909 and 1911 (referred to in a previous report) has not brought about an equilibrium between receipts and expenditure. Another year should pass before a decision is reached respecting any further reduction. The reduced fees (1911) have only applied to a portion of the fiscal year 1911-12.

The kindred service of weights and measures inspection, it will be observed, earned about 77 per cent of its actual cost, the expenditure as already stated having been $131,344.71 against a revenue of $100,696.52.

I have the honour to be, sir,

Your obedient servant,

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX A.

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.							Revenues.
		Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Totals.	
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Belleville	Johnson, Wm Diamond, E. D. Howson, G. H Kylie, R Slattery, Thos	3,322 80	65 00		111 25	1,120 87	104 88	5,454 80	2,365 90
Hamilton	Scaley, J. C Clegg, Jos. Fitzgerald, E. W. Landman, R. H Robins, S. W. Wheatley, A. E. Buck, J. H.	6,711 29	200 00			1,843 79	140 72	8,927 80	10,162 99
Kingston	Gallagher, Thos. Johnston, C. W. McLean, C. F. Davis, J. M	2,199 90	150 00	..	..	117 25	18 30	2,815 15	1,519 05
London	Butler, F. H. Hughes, R. V Coughlin, D Liddle, D. Thomas, J. S. Robinson, J. T. Cada, T. A.	1,504 06	611 07			2,083 63	355 03	7,553 79	10,251 85
Ottawa	Hinchey, E. H. Breen, J. Church, G. C. Findley, Robt Hodgins, H. A. Dugal, G. A Hodgins, Gerald Laliberté, Geo. Sheppard, C. F. Robinson, A. N. Trumpour, T.	4,260 72	1,685 08	..		1,819 19	105 68	7,870 67	5,081 37
Toronto	McConvey, J. J. Cruikshank, J. L. Milligan, R. J. Murdoch, Jas Smith, J. C. Wright, R. J. Fallowdown, W. A. McEachern, C. A. Stokes, R. A.	6,866 41	709 99		...	2,084 77	148 69	9,809 89	12,807 83
	Ontario	27,895 27	3,421 14		111 25	9,369 50	1,203 30	42,33 46	42,191 99

APPENDIX A—*Continued.*

STATEMENT of Weights and Measures, Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Inspection Divisions.	Inspectors and Assistants.	Expenditures.							Revenues.
		Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Totals.	
		$ cts.	cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Montreal. ..	Archambault, J. E. D'Aoust, J. A .... Boudet, E .... Beaulac, J. H..... Galipeau, J. B. N. Hebert, J. A. P... Macbeth, W ..... Wilson, J. C..... Bélanger, S. F ... Van Antwerp, C. D. Chapleau, Raoul ..	8,429 70	650 00	..	1,350 00	2,433 49	245 68	13,099 87	13,570 60
Quebec.	Roy, Chs. E ..... Bourget, L. J..... Caldwell, A. B.... Lebel, J. A. W.. . Gauvin, B. . . ... Knowles, Chs..... Préfontaine, F. H. Beauchamp, L. E.. Duchesne, Naz.... Miles, G..... Desjardins, H..... Lortie, A. ..... Bernatchez, Abel.. Dionne, L. A.....	7,099 72	2,604 16	..	366 67	2,326 83	214 53	12,611 91	5,976 30
Sherbrooke..	Fournier, L. A.... Delorme, Ovide. . Van Antwerp, C. B. Lemire, J. N.....	1,266 65	1,246 41	..	325 00	951 37	248 14	4,037 57	6,034 30
St. Hyacinthe.....	Morin, J. P. ... Dessert, V..... Desmarais, A. .... Fournier, L. A.... Richer, A..... Tomlinson, W. M. Boisvert, Fortunat. Van Antwerp, C. B. Lemire, J. N. .. . Champagne, J. A..	3,233 16	1,188 20	..	.....	1,286 01	115 90	5,823 27	3,966 40
Three Rivers..	Lessard, Albert .. Bolduc, E.....	1,665 47	.... ..	..	.....	192 88	53 29	1,911 64	481 10
	Quebec.	21,685 70	5,688 77	..	2,041 67	7,190 58	877 54	37,484 26	29,128 70
St. John, N.B ...	Barry, James..... Leblanc, J. O. ... White, H. E .... Limerick, A. K. .. Bernier, J. A	3,399 82	800 00	..	.....	974 68	46 80	5,221 30	3,840 23

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APPENDIX A—*Continued.*

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Inspection Divisions.	Inspectors and Assistants.	Expenditures. Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Totals.	Revenues.
		$ cts.	$ cts.		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Halifax, N.S.	O'Brien, Wm. Sargent, F. H. Waugh, R. Dillon, D. H.	2,199 88	1,059 92		507 36	769 64	124 36	4,661 16	1,480 67
Pictou	Dustan, W. M. Chisholm, J. J. Campbell, D. A. Laurence, G. C.	2,400 00	1,218 00			945 90	190 75	4,454 65	2,141 84
	Nova Scotia	4,599 88	2,277 92		507 36	1,715 54	315 09	9,115 79	3,622 51
Charlottetown, P.E.I.	Davy, E. Hughes, H.	1,858 25	60 00			251 01	28 63	2,197 89	512 68
Winnipeg, Man.	Walton, G. Gilby, W. F. Grant, C. D. McKay, R. McLean, D. G. Spicer, H. Landry, Thos. Kerr, John Bowen, A. A.	5,416 43	503 90			2,536 15	291 89	8,858 37	10,905 39
Saskatoon, Sask.	Johnston, C. W. Hayward, A. C. Mackinnon, J. W. Illingsworth, H. Welsh, W. R. McIntosh, W.	1,800 06	1,238 74			1,448 33	532 35	5,019 48	2,689 10
Calgary, Alta.	Costello, J. W. McLeod, N. T.	2,545 75	343 00			1,904 70	66 86	4,860 31	3,700 22
Nelson	Parker, Thos. Sutherland, J. W.	1,249 92	173 47		15 00	1,292 40	152 62	2,883 41	1,250 95
Vancouver	Dutton, A. H. Shaw, J. Harris, W. H.	3,166 52	12 00	75		200 05	455 70	3,835 02	2,798 25
	British Columbia	4,416 44	185 47	75	15 00	1,492 45	608 32	6,718 43	4,049 20
Dawson, Yukon	McDonald, J. F.	1,000 00				24 00	8 25	1,032 25	26 50

APPENDIX A—*Concluded.*

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

RECAPITULATION.

	Expenditures.							Revenues.
	Salaries.	Special Assistance.	Seizures.	Rent.	Travelling Expenses.	Sundries.	Total.	
	$ cts.	$ cts		$ cts.	$ cts	$ cts.	$ cts.	$ cts.
Ontario	27,895 27	3,421 14	..	441 25	9,369 50	1,203 30	42,330 46	42,191 99
Quebec	21,685 70	5,688 77	..	2,041 67	7,190 58	877 54	37,484 26	29,128 70
New Brunswick	3,399 82	800 00	..	.....	974 68	46 80	5,221 30	3,840 23
Nova Scotia	4,299 88	2,277 92	..	507 36	1,715 54	315 09	9,115 79	3,622 51
Prince Edward Island	1,858 25	60 00	..	.....	251 01	28 63	2,197 89	542 68
Manitoba	5,416 43	593 90	..	.....	2,556 15	291 89	8,858 37	10,905 39
Saskatchewan	1,800 06	1,238 74	..	.....	1,448 33	532 35	5,019 48	2,689 10
Alberta	2,545 75	343 00	..	.....	1,904 70	66 86	4,860 31	3,700 22
British Columbia	4,416 44	185 47	75	15 00	1,492 45	608 32	6,718 43	4,049 20
Yukon	1,000 00	.....	..	.....	24 00	8 25	1,032 25	26 50
Chief Inspector	.....	46 80	..	.....	76 35	47 48	170 63	.....
General Contingencies	.....	.....	..	.....	.....	4,936 82	4,936 82	.....
Printing	.....	.....	..	.....	.....	1,200 70	1,200 70	.....
Stationery	.....	.....	..	.....	.....	549 65	549 65	.....
Provisional Allowance	.....	.....	..	.....	.....	1,432 37	1,432 37	.....
International Bureau of Weights & Measures	.....	.....	..	.....	.....	216 00	216 00	.....
Grand Totals	74,317 60	14,655 74	75	3,005 28	27,003 29	12,362 05	131,344 71	100,696 52

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX B

APPENDIX

RETURN of Weights and Measures inspected during the Fiscal Year ended March 31, each Division, for each Province,

Inspection Office.	Weights.								Measures of Capacity.					
	Dominion.			Troy.		Miscellaneous.			Dominion.			Miscellaneous.		
	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.
Belleville	875	852	23	....	....	....	....	..	501	500	1	56	56	..
Hamilton	9,303	9,300	3	8	8	38	38	..	7,786	7,785	1	244	233	11
Kingston	508	508	..	....	....	3	3	..	3,357	3,357	..	14	14	....
London	2,077	2,073	4	....	....	406	406	..	46,879	46,878	1	25	24	1
Ottawa	7,033	7,019	14	....	....	2	3	..	1,544	1,528	16	229	227	2
Toronto	5,364	5,326	38	18	18	4	4	..	29,406	29,406	..	2,939	2,936	3
Ontario	25,160	25,078	82	26	26	453	453	..	89,473	89,454	19	3,507	3,490	17
Montreal	9,889	9,832	57	118	118	175	175	..	30,161	30,461	..	1,206	1,189	17
Quebec	6,083	5,922	161	....	....	1,001	996	5	7,373	7,364	9	134	134	....
Sherbrooke	4,948	4,948	....	12	12	306	306	..	837	837	..	43	43	....
St. Hyacinthe	3,532	3,532	....	....	....	237	237	..	2,366	2,365	1	119	114	5
Three Rivers	724	724	..	....	....	1	1	..	564	564	..	12	12	....
Quebec	25,176	24,958	218	130	130	1,720	1,715	5	41,601	41,591	10	1,514	1,492	22
St. John, N.B.	2,772	2,772	..	....	....	31	31	..	5,624	5,624	..	4,715	4,715	....
Halifax	1,188	1,188	....	....	....	21	21	..	730	730	..	220	220	....
Pictou	1,564	1,564	..	....	....	17	17	..	1,202	1,202	..	235	235	....
Nova Scotia	2,752	2,752	....	....	....	38	38	..	1,932	1,932	..	455	455	....
Charlottetown, P.E.I.	454	454	....	....	....	....	....	..	117	117	..	30	30	....
Winnipeg, Man.	3,570	3,533	37	....	....	50	50	..	5,175	5,169	6	974	693	281
Saskatoon, Sask.	172	172	....	....	....	1	1	..	44	44	..	17	17	....
Calgary, Alta.	312	312	....	....	....	....	....	..	21	21	..	122	122	....
Nelson	454	454	..	....	....	1	1	..	243	243	..	17	17	....
Vancouver	680	680	....	....	....	11	11	..	63	63	..	14	14	....
Br. Columbia	1,134	1,134	....	....	....	12	12	..	306	306	..	31	31	....
Dawson, Yukon	....	....	..	....	....	....	....	..	....	....	..	....	....	....
Grand total	61,502	61,165	337	156	156	2,305	2,300	5	144,293	144,258	35	11,365	11,045	320

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 19.3.

SESSIONAL PAPER No. 13

B.

1913, showing the Total Number brought for Verification, Verified and Rejected for and for the whole Dominion.

Measures of length.			Balances, &c.											
			Equal Armed.			Steelyards.			Platform Scales, Weigh Bridges, &c.			Miscellaneous.		
Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.
76	76		207	207		45	45		1,091	1,068	23	592	591	1
898	886	12	1,950	1,841	109	1,619	1,587	32	6,194	5,687	507	3,431	3,360	71
57	57		91	91		14	14		7	8		728	341	341
3,773	3,773		417	413	4	138	138		3,285	3,206	79	5,227	5,213	14
424	417	7	1,094	1,091	3	20	20		1,854	1,835	19	2,534	2,501	33
1,017	1,017		1,328	1,291	37	427	412	15	1,668	1,552	116	10,471	10,455	16
6,245	6,226	19	5,117	4,961	153	2,263	2,216	47	17,620	16,876	744	22,596	22,461	135
2,316	2,316		2,062	2,040	22	1,197	1,188	9	5,137	4,986	149	11,711	11,682	29
1,129	1,096	24	1,020	1,015	5	275	273	2	2,271	2,245	26	861	860	1
135	129	6	1,003	1,003		579	579		5,197	5,187	10	342	341	1
278	278		620	620		271	269	2	3,692	3,652	40	160	159	1
59	59		124	124		21	21		264	256	8	11	10	1
3,908	3,878	30	4,829	4,802	27	2,343	2,330	13	16,559	16,326	233	13,115	13,082	33
12	12		601	601		30	29	1	1,911	1,901	13	917	916	1
1	1		300	299	1	17	17		787	762	25	116	115	1
72	72		309	309		18	18		797	797		389	389	
73	73		609	608	1	65	65		1,584	1,559	25	835	834	1
			97	97		19	19		363	363		352	352	
526	526		636	608	28	95	94	1	3,378	3,270	108	21,115	21,396	49
			11	11		1	1		860	846	14	318	315	3
1	1		54	49	1	74	73	1	1,146	1,138	8	2,255	2,248	7
115	115		84	84		58	58		567	567		270	269	1
			167	167		90	90		907	907		4,304	4,304	
115	115		251	251		148	148		1,474	1,474		4,574	4,573	1
						6	6		7	7		7	7	
10,880	10,831	49	12,204	11,994	210	5,044	4,981	63	44,995	43,760	1,145	66,114	66,184	230

WM. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the Number of Dominion Weights and Lineal Measures of each Fiscal Year ended

Inspection Division.	Dominion Avoir														
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville	..	..	..	..	..	12	..	21	80	106	205	194	62	58	47
Hamilton	..	2,284	27	..	18	33	..	303	271	1,323	2,180	1,489	304	275	368
Kingston	..	2	1	..	1	18	..	29	36	53	106	102	45	38	33
London	..	..	..	..	..	19	..	59	99	190	438	385	214	201	181
Ottawa	..	33	3	..	2	4	..	265	39	385	540	327	850	819	796
Toronto	..	96	44	..	..	128	..	400	441	352	1,556	1,153	266	237	246
Ontario	..	2,415	75	..	21	214	.	1,077	916	2,409	5,025	3,650	1,741	1,628	1,671
Montreal	..	133	20	..	25	176	..	684	484	1,006	1,990	1,755	1,050	890	730
Quebec	2	21	6	..	10	45	..	365	490	591	927	879	823	749	633
Sherbrooke	..	324	.	2	2	11	..	74	492	65	1,331	1,192	500	292	239
St. Hyacinthe	..	..	..	..	..	30	..	200	227	697	896	521	328	229	261
Three Rivers	..	..	..	..	..	5	..	40	28	102	136	118	94	82	56
Quebec	2	478	26	2	37	267	..	1,363	1,721	2,461	5,280	4,465	2,795	2,242	1,919
St. John, N.B.	..	..	..	..	20	25	..	142	223	359	756	619	239	167	113
Halifax	..	..	..	..	..	4	..	37	89	123	372	270	108	68	60
Pictou	..	283	..	..	..	21	..	49	62	227	364	304	59	52	46
Nova Scotia	..	283	..	..	..	25	.	86	151	350	736	574	167	120	106
Charlottetown, P.E.I	..	..	..	..	..	2	..	17	31	46	142	108	29	23	21
Winnipeg, Man.	..	269	1	3	68	73	..	144	219	392	726	557	189	187	178
Saskatoon, Sask.	..	21	3	..	8	16	..	7	45	10	26	18	3	3	3
Calgary, Alberta	..	12	1	2	2	18		32	35	29	86	62	9	6	6
Nelson	..	..	..	..	..	..	..	4	15	23	108	90	42	37	38
Vancouver	..	3	8	..	5	19	..	7	23	55	162	151	47	43	39
British Columbia	..	3	8	..	5	19	..	11	38	78	270	241	89	80	77
Dawson, Yukon	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	2	3,481	114	7	....	166	..	2,879	3,429	6,134	13,047	10,294	5,261	4,456	4,094

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

C

Denomination presented for Verification in each Inspection Division during the March 31, 1913.

Weights.									Lineal Measures.									
dupois.																		
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	½ dr.	Total Number.	Troy Weights.	Miscellaneous Weights.	6 feet.	3 feet.	1 yard.	½ yard.	2 feet.	1 foot.	½ foot.	100 feet chains.	66 feet chains.	Tape or riband.	Total number.	Miscellaneous measures.
35	27	17	7	3	1	875	..	....	..	..	76								76	..
197	148	57	17	9	...	9,303	8	38	..	..	898								898	..
24	11	8	1	..	...	508	..	3	..	..	57								57	...
156	95	36	4	..	...	2,077	..	106	..	..	3,773								3,773	...
772	753	1,424	13	6	2	7,032	..	2	..	..	424								124	...
224	123	58	17	21	2	5,361	18	4	..	..	1,017								1,017	..
1,408	1,157	1,600	59	39	5	25,160	26	153			6,245								6,245	
488	185	95	79	99	..	9,889	118	175	..	..	2,316								2,316	..
408	97	25	6	4	2	6,08.	..	1,001	..	1	1,119								1,120	..
225	161	26	6	5	1	4,948	12	306	..	1	134								13.	..
108	27	6	1	1	..	3,532	..	237	..	..	278								278	..
40	11	3	3	3	3	724	..	1	..	..	59								59	...
1,269	481	155	95	112	6	25,176	130	1,729	..	2	3,906								3,908	..
65	28	14	2	...	...	2,772	..	31	..	..	12								12	..
42	11	4	..	..	..	1,188	..	21	..	..	1								1	..
44	28	15	8	2	..	1,564	...	17	...	..	72								72	...
86	39	19	8	2	..	2,752	..	38	....	..	73								73	..
17	10	5	3	..	...	454	..	..	..	..	...	..	..	..	..	..	..	..	..	...
172	126	107	74	85	..	3,570	...	50	..	..	526	..	..	..	..	..	..	..	526	...
3	2	2	1	1	..	172	...	1	...	....	...	....	..	..	..	..	..	..	..	...
6	5	4	..	..	..	312	...	...	....	..	1	..	..	..	..	..	..	..	1	...
31	28	25	9	1	..	454	...	1	...	..	115	..	..	..	..	..	..	..	115	...
37	31	26	20	3	1	680	....	11	...	..	..	..	..	..	..	..	..	..	..	....
71	59	51	29	4	1	1,134	....	12	....	...	115	..	..	..	..	..	..	..	115	....
..	....	..	..	..	...	..	..	..	....	...	.....	....	....	....	....	....	....	....	...	....
3,097	1,907	1,954	271	243	12	61,502	153	2,305	....	2	10,878	....	....	....	....	....	....	....	10,880	....

WM. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the Number of Dominion Weights and Lineal Measures of each March

Inspection Division.	Dominion Avoir-														
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville	..	..	..	..	..	11	..	20	74	102	198	193	61	57	46
Hamilton	..	2,284	27	..	18	33	..	303	271	1,323	2,179	1,488	303	275	368
Kingston	..	2	1	..	1	18	..	29	36	53	106	102	45	38	33
London	..	..	..	..	..	19	..	59	99	189	437	385	214	201	180
Ottawa	..	33	3	..	2	4	..	265	35	385	537	324	846	819	796
Toronto	..	96	44	..	..	128	..	399	438	349	1,544	1,143	264	235	244
Ontario	..	2,415	75	..	21	213	..	1,075	953	2,401	5,001	3,635	1,733	1,625	1,667
Montreal	..	133	20	..	25	175	..	680	479	1,000	1,979	1,745	1,640	885	726
Quebec	2	21	6	..	10	44	..	395	469	568	900	854	795	733	625
Sherbrooke	..	324	..	2	2	11	..	74	492	65	1,331	1,192	500	292	239
St. Hyacinthe	..	..	..	..	..	30	..	200	227	697	896	521	328	229	261
Three Rivers	..	..	..	..	..	5	..	40	28	102	136	118	94	82	56
Quebec	2	478	26	2	37	265	..	1,349	1,695	2,432	5,242	4,430	2,757	2,221	1,907
St. John, N.B	..	..	..	..	20	25	..	142	223	359	756	619	239	167	113
Halifax	..	..	..	..	..	4	..	37	89	123	372	270	108	68	60
Pictou	..	283	..	..	..	21	..	49	62	227	364	304	59	52	46
Nova Scotia	..	283	..	..	..	25	..	86	151	350	736	574	167	120	106
Charlottetown, P.E.I	..	..	..	..	..	2	..	17	31	46	142	108	29	23	21
Winnipeg, Man	..	268	1	3	68	73	..	141	218	392	724	556	188	163	176
Saskatoon, Sask	..	21	3	..	8	16	..	7	45	10	26	18	3	3	3
Calgary, Alta	..	12	1	2	2	18	..	32	35	29	86	62	9	6	6
Nelson	..	..	..	..	..	..	..	4	15	23	108	90	42	37	38
Vancouver	..	3	8	..	5	19	..	7	33	55	162	151	47	43	39
British Columbia	..	3	8	..	5	19	..	11	38	78	270	241	89	80	77
Dawson, Yukon	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	2	3,480	114	7	161	656	..	2,863	3,389	5,097	12,983	10,243	5,214	4,408	4,076

INLAND REVENUE DEPARTMENT,
OTTAWA June 1, 1913.

SESSIONAL PAPER No. 13

C *Continued.*

Denomination verified in each Inspection Division during the Fiscal Year ended 31, 1913.

Weights.									Lineal Measures.									
Troy Weights.								Miscellaneous Weights.										Miscellaneous measures.
1 oz.	8 dr.	4 dr.	2 dr.	1 dr.	½ dr.	Total Number.			6 feet	3 feet.	1 yard	½ yard.	2 feet.	1 foot.	½ foot.	100 foot chains.	66 foot chains.	Tape or riband.	Total number.	
35	27	17	7	3	1	8[illegible]					76							76	
197	148	57	17	9		9,300	8	8			886							886	
24	11	8	1			508		3			57							57	
155	95	36	4			2,073		106			3,773							3,773	
772	753	1,424	13	6	2	7,019		2			117							117	
222	122	58	17	21	12	5,326	18	4			1,017							1,017	
1,405	1,156	1,600	59	39	5	25,078	26	153			6,226							6,226	
487	185	95	79	99		9,882	118	175			2,316							2,316	
107	96	25	6	4	2	5,122		996			1,096							1,096	
225	101	26	6	4	1	4,948	12	406			129							129	
108	27	6	1	1		3,532		237			278							278	
40	11	3	3	3	3	721		1			59							59	
1,227	480	155	95	112	6	21,958	130	1,715			3,878							3,878	
65	28	14	2			2,772		31			12							12	
12	11	1	..			1,188		21			1							1	
41	28	15	8	2		1,564		17			72							72	
86	39	19	8	2		2,752		38			73							73	
17	10	5	3			454													
168	125	107	74	85		3,533		70			526							526	
3	2	2	1	1		172		1											
6	5	1				312					1							1	
34	28	25	9	1		454		1			115							115	
37	31	26	20	3	1	680		11											
71	59	51	29	4	1	1,134		12			115							115	
3,088	1,904	1,954	271	213	12	61,165	156	2,270			10,831							10,831	

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the number of Dominion Weights and Lineal Measures of each March

Inspection Division.	Dominion Avoir														
	60 lbs.	50 lbs.	30 lbs.	25 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville						1		1	6	4	7	1	1	1	1
Hamilton											1	1	1		
Kingston															
London										1	1				1
Ottawa									4		3	3	4		
Toronto								1	3	3	12	10	2	2	2
Ontario						1		2	13	8	24	15	8	3	4
Montreal						1		4	5	6	11	10	10	5	4
Quebec						1		10	21	23	27	25	28	16	8
Sherbrooke															
St. Hyacinthe															
Three Rivers															
Quebec						2		14	26	29	38	35	38	21	12
St. John, N.B															
Halifax															
Pictou															
Nova Scotia															
Charlottetown, P.E.I															
Winnipeg, Man		1							1		2	1	1	24	2
Saskatoon, Sask															
Calgary, Alta															
Nelson															
Vancouver															
British Columbia															
Dawson, Yukon															
Totals		1				3		16	40	37	64	51	47	48	18

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

C—*Concluded.*

Denomination Rejected in each Inspection Division during the Fiscal Year ended 31, 1913.

Weights.									Lineal Measures.									
Avoirdupois.							Troy Weights.	Miscellaneous Weights.	6 feet.	5 feet.	1 yard.	4 yard.	2 feet.	1 foot.	4 foot.	100 feet chains.	66 feet chains.	Tape or chain.
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	½ dr.	Total Number.												
						23												
						3					12							
1						1												
						14					7							
2	1					38												
3	1					82					19							
1						57												
1	1					161		5			24							
											6							
2	1					218		5			30							
1	1					37												
9	3					337		5			49							

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the Number of Dominion Measures of Capacity, Balances and Inspection Division, during the Fiscal

Inspection Division.	Measures of Capacity. Dominion.											
	Bushel.	½ bushel.	Peck.	Gallon.	½ gallon.	Quart.	Pint.	½ pint.	Gill.	½ gill.	Total number.	Miscellaneous.
Belleville	1	8	28	106	100	163	86	8	1	...	501	56
Hamilton	347	224	406	1,142	1,193	2,033	1,891	522	26	....	7,786	244
Kingston	17	399	3 9	5 8	472	802	691	69	....	....	3,357	14
London	891	2,020	1,075	5,867	6,085	13,895	15,021	2,025	....	....	46,879	25
Ottawa	....	5	15	255	451	456	287	67	8	....	1,544	229
Toronto	..	1,642	1,417	2,897	5,938	7,071	8,565	1,868	8	....	29,406	2,939
Ontario	1,256	4,298	3,300	10,815	14,239	24,422	26,541	4,559	43	..	89,473	3,507
Montreal	147	551	1,538	4,427	4,751	7,454	8,560	2,961	132	....	30,461	1,206
Quebec	1	140	285	1,487	1,924	1,647	1,228	596	60	5	7,373	134
Sherbrooke	1	3	5	156	269	247	109	42	5	...	837	43
St. Hyacinthe	.....	82	162	399	543	605	337	191	46	1	2,366	119
Three Rivers	.....	31	43	90	126	145	82	31	16	....	564	12
Quebec	149	807	2,033	6,559	7,613	10,098	10,256	3,821	259	6	41,601	1,514
St. John, N.B.	.....	294	296	1,115	1,926	1,094	670	229	....	....	5,624	4,715
Halifax	1	2	5	153	295	203	65	6	....	....	730	220
Pictou	.....	3	2	180	471	439	104	3	...	....	1,202	235
Nova Scotia	1	5	7	333	766	642	169	9	....	....	1,932	455
Charlottetown, P.E.I.	.....	.....	.....	7	17	56	35	2	....	....	117	30
Winnipeg, Man.	24	.....	....	972	1,528	1,896	716	25	2	2	5,175	974
Saskatoon, Sask.	.....	.....	.....	22	9	8	5	.....	....	....	44	17
Calgary, Alta.	1	.....	.....	8	8	4	....	.....	....	...	21	122
Nelson	....	....	5	59	95	64	20	.....	....	....	243	17
Vancouver	.....	.....	.....	18	5	23	15	2	....	....	63	14
British Columbia	.....	.....	5	77	100	87	35	2	..	....	306	31
Dawson, Yukon	.....	.....	....	.....	...	.....	.....	....	....	....	.....	....
Totals	1,431	5,404	5,641	19,908	26,206	38,307	38,427	8,657	304	8	144,293	11,365

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

D.

Weighing Machines of each Denomination presented for Verification in each Year ended March 31, 1913.

Balances.

With equal arms.				Steelyards with divided arms.				Weigh Bridges or Platform Scales.							
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	250 lbs. and under.	251 lbs. to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.	Total.	Miscellaneous.
97	108	2	..	13	....	2	....	276	59	352	129	46	229	1,343	592
747	1,183	1	19	1,590	20	7	2	2,998	163	2,238	296	211	288	9,763	3,431
32	59	....	..	13	1	....	....	85	41	389	21	30	152	833	341
217	226	4	..	133	4	1	..	775	67	1,650	192	58	543	3,870	5,227
745	345	3	1	17	1	1	1	663	129	810	48	54	150	2,968	2,534
584	673	2	69	395	18	12	2	2,337	111	1,390	262	56	309	6,223	10,471
2,422	2,594	12	89	2,191	41	23	5	7,134	573	6,839	948	455	1,671	25,000	22,596
632	1,406	20	4	1,171	11	3	12	1,489	1,102	1,839	156	153	396	8,394	11,711
191	733	12	84	264	11	..	..	808	719	620	26	29	69	3,566	861
440	562	1	..	549	18	5	7	2,263	704	1,685	171	181	193	6,779	342
182	438	..	..	261	5	..	5	2,063	527	842	63	98	99	4,583	160
19	105	....	..	20	1	..	..	90	57	92	9	5	11	409	41
1,464	3,241	33	88	2,265	46	8	24	6,713	3,109	5,078	425	466	768	23,731	13,115
182	422	....	..	30	..	..	....	817	815	576	48	28	130	2,548	917
98	201	....	1	44	3	....	....	401	94	150	15	18	109	1,134	446
89	220	....	....	17	1	....	....	352	114	175	17	23	116	1,124	389
187	421	....	1	61	4	....	....	753	208	325	32	41	225	2,258	835
22	75	....	....	19	..	....	....	105	32	178	17	12	19	479	352
195	420	5	16	65	29	....	1	657	68	929	241	529	954	4,109	21,445
2	3	1	5	1	....	....	....	24	....	33	30	186	587	872	318
19	24	2	5	40	13	20	1	224	17	349	60	91	405	1,270	2,255
40	41	3	..	31	9	18	....	239	15	210	12	8	83	709	270
70	94	....	3	32	9	49	....	363	33	396	11	6	68	1,164	4,304
110	135	3	3	63	18	67	....	602	48	606	53	14	151	1,873	4,574
.....	.....	....	....	..	....	2	..	4	1	6	....	..	....	13	7
4,603	7,338	56	207	4,735	154	120	31	17,033	4,371	14,919	1,854	1,822	4,910	62,153	66,414

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the Number of Dominion Measures of Capacity, Balances and during the Fiscal Year ended

Measures of Capacity.

Dominion.

Inspection Division.	Bushel.	½ Bushel.	Peck.	Gallon.	½ Gallon.	Quart.	Pint.	½ Pint.	Gill.	½ Gill.	Total Number.	Miscellaneous.
Belleville	1	8	27	106	100	163	86	8	1	....	500	56
Hamilton	347	224	406	1,141	1,193	2,035	1,891	522	26	....	7,785	233
Kingston	17	399	359	548	472	802	691	69	....	....	3,357	14
London	891	2,019	1,075	5,867	6,085	13,895	15,021	2,025	....	....	46,878	24
Ottawa	....	5	15	253	447	452	283	66	7	....	1,528	227
Toronto	....	1,642	1,417	2,897	5,938	7,071	8,565	1,868	8	....	29,406	2,936
Ontario	1,256	4,297	3,299	10,812	14,235	24,418	26,537	4,558	42	....	89,454	3,490
Montreal	147	551	1,533	4,427	4,751	7,454	8,509	2,961	132	....	30,461	1,189
Quebec	1	140	285	1,486	1,920	1,644	1,227	596	60	5	7,364	134
Sherbrooke	1	3	5	156	269	247	109	42	5	....	837	43
St. Hyacinthe	....	82	162	399	543	604	337	191	46	1	2,365	114
Three Rivers	....	31	43	90	126	145	82	31	16	....	564	12
Quebec	149	807	2,033	6,558	7,609	10,094	10,255	3,821	259	6	41,591	1,492
St. John, N.B	....	294	296	1,115	1,926	1,094	670	229	....	....	5,624	4,715
Halifax	1	2	5	153	295	205	65	6	....	....	730	220
Pictou	....	3	2	180	471	439	104	3	....	....	1,202	235
Nova Scotia	1	5	7	333	766	642	169	9	....	....	1,932	455
Charlottetown, P.E.I.	....	....	....	7	17	56	35	2	....	....	117	30
Winnipeg, Man.	24	....	....	971	1,526	1,894	715	35	2	2	5,169	693
Saskatoon, Sask	....	....	....	22	9	8	5	....	....	....	44	17
Calgary, Alta	1	....	....	8	8	4	....	....	....	....	21	122
Nelson	....	....	5	59	15	61	20	....	....	....	243	17
Vancouver	....	....	....	18	5	23	15	2	....	....	63	14
British Columbia	....	....	5	77	100	87	35	2	....	....	306	31
Dawson, Yukon	....	....	....	....	....	....	....	....	....	....	....	....
Totals	1,431	5,403	5,640	19,903	26,190	38,297	38,421	8,656	363	8	144,258	11,245

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

D—*Continued.*

Weighing Machines of each Denomination Verified, in each Inspection Division March 31, 1913.

Balances.

With Equal Arms.				Steelyard s with Divided Arms.				Weigh Bridges on Platform Scales.							
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	250 lbs. and under.	251 lbs to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs to 4,000 lbs.	4,001 lbs to 6,000 lbs.	6,001 lbs. and upwards.	Total.	Miscellaneous.
97	108	2	...	43		2		274	57	343	126	15	223	1,320	591
724	1,100	1	19	1,559	20	7	1	2,884	135	2,021	255	202	190	9,115	3,360
32	59		..	13	1		...	85	41	399	21	30	152	833	341
214	225	4		133	1	1	..	763	64	1,625	185	51	518	3,787	5,213
743	344	3	1	17	1	1	1	661	128	799	16	52	149	2,946	2,501
506	655	1	69	381	17	12	2	2,309	107	1,356	248	54	298	6,055	10,455
2,373	2,491	11	89	2,146	43	23	4	6,976	532	6,523	881	434	1,530	24,056	22,461
627	1,389	29	4	1,162	11	3	12	1,461	1,076	1,788	147	143	371	8,214	11,682
191	729	11	81	262	11			801	712	612	26	29	65	3,533	859
140	762	1		549	18	5	7	2,261	704	1,681	171	181	189	6,709	311
182	438			259	5	..	5	2,056	345	824	63	97	97	4,541	159
19	105			20	1			99	54	89	8	5	10	101	40
1,459	3,223	32	88	2,252	46	8	24	6,669	3,061	4,994	415	455	732	23,478	13,082
182	122			29				816	314	569	48	27	127	2,534	913
98	200		1	41	3			388	91	140	14	16	103	1,108	445
89	220			17	1			359	111	175	17	23	116	1,124	389
187	120		1	61	4			750	205	315	31	39	219	2, 232	834
22	75			19				105	32	178	17	12	19	479	372
182	405	5	16	64	29		1	643	67	896	231	516	914	3,972	21,396
2	3	1	5	1				24		33	30	181	578	878	315
18	21	2	5	39	13	20	1	224	17	347	60	89	401	1,260	2,248
40	41	3		31	9	18		259	15	213	12	8	83	709	261
70	94		3	32	9	49		363	33	396	11	6	68	1,164	4,304
110	135	3	3	63	18	67		602	48	606	53	14	151	1,873	4,573
			..		2		4	1	6	..					7
4,535	7,198	54	207	4,671	155	118	31	16,810	4,282	14,461	1,769	1,767	4,671	60,722	66,184

W. HEMSWORTH,
Deputy Minister.

APPENDIX

RETURN showing the Number of Dominion Measures of Capacity, Balances and during the Fiscal Year ended

Inspection Division.	Measures of Capacity. Dominion. Bushel.	½ bushel.	Peck.	Gallon.	½ gallon.	Quart.	Pint.	½ pint.	Gill.	½ gill.	Total number.	Miscellaneous.
Belleville			1								1	
Hamilton				1							1	11
Kingston												
London		1									1	1
Ottawa				2	4	4	4	1	1		16	2
Toronto												3
Ontario		1	1	3	4	4	4	1	1		19	17
Montreal												17
Quebec				1	4	3	1				9	
Sherbrooke												
St. Hyacinthe						1					1	5
Three Rivers												
Quebec				1	4	4	1				10	22
St. John, N.B												
Halifax												
Pictou												
Nova Scotia												
Charlottetown, P.E.I												
Winnipeg, Man				1	2	2	1				6	281
Saskatoon, Sask												
Calgary, Alta												
Nelson												
Vancouver												
British Columbia												
Dawson, Yukon												
Totals		1	1	5	10	10	6	1	1		35	380

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

SESSIONAL PAPER No. 13

D—*Concluded.*

Weighing Machines of each Denomination, Rejected, in each Inspection Division, March 31, 1913.

| Balances. | | |

APPENDIX E.

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Barrie	Shanacy, M.	100 00					100 00	136 00
Belleville	Johnson, Wm	304 15	65 00	181 25	28 50	4 50	583 40	156 20
Berlin	Powell, J. B.	200 00	30 00		66 90	4 15	301 65	558 60
Brockville	Fraser, H.							163 20
Cobourg	Bickle, J. W.	100 00	24 00		39 25	75 59	238 84	173 60
Cornwall								94 20
Guelph	Broadfoot, S.	300 00	20 00			18 03	338 03	636 00
Hamilton	McPhie, W. H. Lutz, H. Murphy, F. C. Dennis, W. A.	2,057 71	176 61	120 00	687 38	179 78	3,221 48	7,638 70
Kingston								470 00
Listowel	Male, T.	100 00	9 00	58 50			167 50	33 00
London	Nash, A. F. Skelton, A. R.	2,499 96	196 98		402 50	41 95	3,141 39	3,821 70
Napanee	Johnson, Wm.							18 00
Ottawa	Roche, H. G. Roche, W. J. Bond, M. B. Couvrette, A. A.	4,106 80	1,025 00	420 00		126 26	5,678 06	1,810 10
Owen Sound	Graham, W. J.	200 00					200 00	242 20
Peterborough	Rork, T.	150 00					150 00	317 20
Sarnia	Thrasher, W. A.	200 00				3 75	203 75	414 50
Stratford	Rennie, Geo.	200 00	12 00			7 95	219 95	157 40
Toronto	Stiver, J. L. Pape, J. Reesor, M. W. Renohan, M. J. Ogden, G. J. Clark, H. M. Johnstone, S. F. Wilson, H. H. Mills, A. E.	7,969 67	1,437 81			133 51	9,540 99	15,013 20
Woodstock	Orr, H. N.	200 00	12 00			1 00	213 00	319 20
	Ontario	18,688 29	3,008 40	779 75	1,224 53	596 47	24,297 44	32,173 20
Montreal	Aubin, A. O'Flaherty, M. J. Aubin, C. Mann, W. Boucher, A. Brandford, E. B.	5,216 50	66 00	240 00	50 00	148 63	5,721 13	17,118 70
Quebec	LeVasseur, N. Béland, E.	1,679 05	60 00	108 33		679 25	2,526 63	685 80
Sherbrooke	Simpson, A. F. Bowen, F. C.	349 92					349 92	144 00
St. Hyacinthe	Benoit, L. V.	100 00					100 00	102 00
	Quebec	7,345 47	126 00	348 33	50 00	827 88	8,697 68	18,050 50

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APPENDIX E—*Concluded.*

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1913—*Concluded.*

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Fredericton.	W[illegible], J. F.	100 00					100 00	
St. John.	W[illegible], J. F.	1,300 00			150 65	7 30	1,457 95	1,054 70
	New Brunswick	1,400 00			150 65	7 30	1,457 95	1,054 70
Halifax, N.S.	Tait, J. Wilcox, S. W. Mems, H. D.	2,299 80	45 00	507 [illegible]	28 [illegible]	6 [illegible]	2,086 [illegible]	45 00
Charlottetown, P.E.I.	Bell, J. H.	500 00					500 00	50 20
Winnipeg, Man.	Hamilton, R. Babington, F. C. Ross, W. A. Webber, Louis	3,459 61			[illegible]	[illegible]	3,459 61	2,859 10
Calgary, Alta.	Kyle, W.		540 30		16 50	264 20	821 20	4,068 30
Nanaimo.	Shaw, J.	100 00					100 00	116 40
New Westminster.	Wolfenden, W.	199 92					199 92	84 00
Vancouver.	Stott, Jas.		32 00			79 00	111 00	2,641 40
Victoria.	Jones, R. Dresser, F.	1,032 49					1,032 49	751 60
	British Columbia.	1,332 41	32 00			79 00	1,443 41	3,596 40
Eastern Dominion Inspection.					288 85	2 24	291 09	
Western "					18 35	24 45	42 80	
General Contingencies.						324 01	824 01	
Printing.						1,111 78	1,111 78	
Stationery.						1,071 61	1,071 61	
Grand Totals		35,025 58	3,747 90	1,635 41	1,966 93	7,877 61	50,253 49	62,747 40

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Barrie—										
April			17·37	0	1					
May			17·36	0	1					
June			18·70	0	1					
July			18·93	0	1					
August			20·00	0	1					
September			18·34	0	1					
October			19·38	0	1					
November			19·78	0	1					
December			17·77	0	1					
January			18·68	0	1					
February			17·63	0	1					
March			18·85	0	1					
				0	12					
Belleville—										
April	18·06	17·86	17·96	0	2					
May	18·23	17·27	17·25	0	2					
June										
July	17·79	17·59	17·69	0	2					
August	17·86	16·39	17·63	0	2					
September	18·00	17·10	17·55	0	2					
October										
November										
December										
January										
February										
March										
				0	10					
Deseronto—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Berlin—										
April			19·81	0	1					
May			20·81	0	1					
June			19·22	0	1					
July			14·85	0	1					
August			17·82	0	1					
September			19·45	0	1					
October			17·00	0	1					
November			18·25	0	1					
December			18·89	0	1					
January			15·90	0	1					
February			17·58	0	1					
March			17·65	0	1					
				0	12					

SESSIONAL PAPER No. 13

F.

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains	Grains						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					[illegible]	0	[illegible]	
					[illegible]	0	[illegible]	No inspection owing to illness.
					[illegible]	0	[illegible]	
					[illegible]	0	[illegible]	No tests made.
								" "
								" "
								" "
								"
					10	0	10	
								No test. Instruments out of order.
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Brockville—										
April			18·30	0	1					
May	18·50	18·30	18·40	0	1					
June			18·00	0	1					
July	18·20	18·00	18·10	0	1					
August			23·14	0	1					
September	23·14	19·00	21·07	0	1					
October			19·40	0	1					
November	22·60	19·40	21·00	0	1					
December			19·20	0	1					
January	19·20	19·00	19·10	0	2					
February			19·00	0	1					
March	19·00	18·80	18·90	0	2					
				0	14					
Cobourg—										
April			18·21	0	1					
May			17·56	0	1					
June			17·76	0	1					
July			16·80	0	1					
August			17·98	0	1					
September			16·49	0	1					
October			16·26	0	1					
November			18·25	0	1					
December			17·05	0	1					
January			17·18	0	1					
February			17·21	0	1					
March			17·10	0	1					
				0	12					
Port Hope—										
April			19·48	0	1					
May			19·24	0	1					
June			19·52	0	1					
July			19·02	0	1					
August			18·53	0	1					
September			19·08	0	1					
October			18·58	0	1					
November			18·41	0	1					
December			17·37	0	1					
January			18·49	0	1					
February										
March			17·97	0	1					
				0	11					
Cornwall—										
April			18·00	0	1					
May			18·40	0	1					
June	18·80	18·00	18·40	0	3					
July			18·00	0	1					
August			18·20	0	1					
September	19·60	18·00	18·60	0	3					
October			18·00	0	1					
November			18·30	0	1					
December	20·40	18·00	18·90	0	3					
January			19·00	0	1					
February										
March	19·00	18·60	18·80	0	2					
				0	18					

SESSIONAL PAPER No. 13

F.—*Continued.*

Inspected during the Year ended March 31, 1913—*Continued.*

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			
Highest	Lowest.	Average	Tests not as required by Law.	No. of tests.	No. of tests. Amount.	No. of tests. Percentage.	No. of tests.	Remarks.
Grains	Grains	Grains						
					1	0	1	
					2	0	2	
					1	0	1	
					1	0	1	
					1	1	1	
					1	0	1	
					2	0	2	
					1	0	1	
					2	0	2	
					18	0	18	
					1	1	1	
					2	0	2	
					2	0	2	
					2	0	2

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Guelph—										
April			19·99	0	1					
May			18·06	0	1					
June			19·77	0	1					
July			19·71	0	1					
August			19·75	0	1					
September			20·53	0	1					
October			20·31	0	1					
November			19·23	0	1					
December			20·17	0	1					
January			20·54	0	1					
February			19·91	0	1					
March			20·63	0	1					
				0	12					
Hamilton—										
April	16·42	16·28	16·35	0	2					
May	17·60	17·43	17·56	0	2					
June	17·87	17·64	17·75	0	2					
July			17·61	0	1					
August			17·75	0	1					
September			17·43	0	1					
October			18·03	0	1					
November			18·02	0	1					
December			17·68	0	1					
January			17·61	0	1					
February			16·24	0	1					
March			18·02	0	1					
				0	15					
Brantford—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Dom. Natural Gas— Dundas and Dunnville										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1913—*Continued.*

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests	
Grains.	Grains.	Grains.						
					2	0	2	
					2	0	2	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					14	0	14	
					2	0	2	
					2	0	2	
					2	0	2	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					15	0	15	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					5	0	5	
					52	0	52	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					52	0	52	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard. 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Provincial Natural Gas, and Fuel Co., Niagara Falls—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
St. Catharines—										
April			16·38	0	1					
May			16·37	0	1					
June			16·78	0	1					
July			16·75	0	1					
August			16·54	0	1					
September			16·71	0	1					
October			17·16	0	1					
November			16·78	0	1					
December			16·78	0	1					
January			16·75	0	1					
February			16·78	0	1					
March			16·38	0	1					
Dom. Nat. Gas Co., Galt—				0	12					
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
United Natural Gas Co., St. Catherines—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1913—*Continued.*

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					0	4	4	
					0	4	4	
					1	4	5	
					0	4	4	
					0	4	4	
					0	5	5	
					0	4	4	
					0	1	1	
					0	5	5	
					0	4	4	
					0	4	4	
					1	0	1	
					5	46	51	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	

APPENDIX

RETURN of the Illuminated Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Candles	Candles	Candles		
Ontario Pipe Line—										
Hamilton—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Sterling Nat. Gas Co.,										
Port Colborne—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Kingston—										
April			18·40	0	1					
May			18·60	0	1					
June			18·50	0	1					
July			18·20	0	1					
August			18·40	0	1					
September			18·70	0	1					
October			18·90	0	1					
November			19·00	6	1					
December			19·60	0	1					
January			19·40	0	1					
February			18·90	0	1					
March			18·70	0	1					
				0	12					
Listowel—										
April			18·04	0	1					
May			20·32	0	1					
June			17·64	0	1					
July			18·78	0	1					
August			19·04	0	1					
September			17·82	0	1					
October			17·88	0	1					
November			16·45	0	1					
December			17·08	0	1					
January			17·62	0	1					
February			17·36	0	1					
March			17·36	0	1					
				0	12					

SESSIONAL PAPER No. 13

F.—*Continued.*

Inspected during the Year ended March 31, 1913—*Continued.*

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					4	0	4	
					4	0	4	
					5	0	5	
					52	0	52	
					0	1	1	
					0	1	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					10	2	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	6	1	
					1	5	1	
					1	0	1	
					1	9	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
London—										
April	19·93	16·58	18·30	0	8					
May	18·95	16·04	17·45	0	8					
June	19·65	16·16	17·95	0	10					
July	19·23	16·83	18·26	0	8					
August	19·62	18·17	18·43	0	10					
September	19·30	18·41	18·79	0	8					
October	19·24	18·48	18·71	0	8					
November	19·89	17·79	19·03	0	10					
December	18·84	16·35	17·94	0	8					
January	20·76	17·20	19·25	0	8					
February	20·72	16·78	18·53	0	8					
March	20·28	17·10	18·56	0	10					
				0	104					
Chatham—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Ingersoll—										
April			20·04	0	1					
May			20·29	0	1					
June			18·81	0	1					
July			16·20	0	1					
August			18·84	0	1					
September			16·48	0	1					
October			17·71	0	1					
November			20·39	0	1					
December			21·70	0	1					
January			17·60	0	1					
February			17·84	0	1					
March			19·03	0	1					
				0	12					
St. Thomas—										
April	16·82	16·80	16·81	0	2					
May	20·43	19·03	19·73	0	2					
June	20·70	18·39	19·54	0	2					
July	20·19	19·03	19·61	0	2					
August	21·45	18·89	20·17	0	2					
September	20·45	19·92	20·18	0	2					
October	20·86	19·35	20·10	0	2					
November	22·92	20·58	21·75	0	2					
December	19·77	19·02	19·39	0	2					
January	19·60	18·43	19·01	0	2					
February	18·79	18·17	18·48	0	2					
March	19·45	17·96	18·70	0	2					
				0	24					

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					8	0	8	
					10	0	10	
					104	0	104	
					1	0	1	
					1	0	1	
					2	0	2	
					2	0	2	
					0	1	1	
					0	1	1	
					1	0	1	
					0	1	1	
					0	1	1	
					0	1	1	
					1	0	1	
					2	0	2	
					10	5	15	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					0	1	1	
					11	1	12	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					2	0	2	
					24	0	24	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of Tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Windsor—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Napanee—										
April			18·23	0	1					
May			19·90	0	1					
June			19·40	0	1					
July			18·90	0	1					
August										
September			14·35	0	1					
October										
November										
December										
January										
February										
March										
				0	5					
Ottawa—										
April	16·29	15·55	15·98	4	8	14·39	14·11	14·25	0	2
May	16·25	15·82	16·02	3	8	14·54	14·39	14·46	0	2
June	16·33	15·86	16·09	1	10	14·59	14·47	14·53	0	2
July	16·28	15·85	16·16	1	8	14·61	14·36	14·50	0	2
August	16·31	15·83	16·06	3	8	14·81	14·71	14·76	0	2
September	16·29	15·68	15·99	5	10	14·41	14·30	14·35	0	2
October	16·24	15·86	16·04	3	8	14·97	14·37	14·60	0	2
November	16·27	15·82	16·05	3	8	14·70	14·01	14·35	0	2
December	16·33	15·55	16·08	1	10	14·93	14·38	14·65	0	2
January	16·31	15·76	16·06	3	8	14·52	14·36	14·44	0	2
February	16·29	15·89	16·05	3	8	14·39	14·19	14·29	0	2
March	16·27	15·82	16·02	4	10	14·81	14·47	14·64	0	2
				34	104				0	24
Owen Sound—										
April			16·66	0	1					
May			17·00	0	1					
June			16·27	0	1					
July			16·40	0	1					
August			16·10	0	1					
September			16·26	0	1					
October			16·65	0	1					
November			16·33	0	1					
December			16·61	0	1					
January			16·05	0	1					
February			16·30	0	1					
March			16·25	0	1					
				0	12					

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					1	3	4	
					1	4	5	
					4	1	5	
					2	2	4	
					2	3	5	
					2	2	4	
					1	4	5	
					0	5	5	
					0	4	4	
					0	4	4	
					0	4	4	
					0	5	5	
					13	41	54	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					0	1	1	
								Inspector on leave of absence.
								No tests made for October.
								" "
								" "
								" "
					4	1	5	
2·27	2·15	2·21	0	12	8	0	8	
2·40	2·30	2·35	0	12	8	0	8	
2·26	1·91	2·08	0	12	10	0	10	
2·14	1·27	1·70	0	12	8	0	8	
2·13	1·87	2·00	0	12	8	0	8	
1·91	1·25	1·58	0	12	10	0	10	
2·27	1·98	2·12	0	12	8	0	8	
2·21	1·16	1·68	0	12	8	0	8	
2·40	1·09	1·74	0	12	10	0	10	
2·25	1·27	1·76	0	12	8	0	8	
2·40	2·17	2·28	0	12	8	0	8	
2·26	2·24	2·25	0	12	8	0	8	
			0	24	102	0	102	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	

APPENDIX

Return of Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Peterborough—										
April	18·60	18·40	18·50	0	2					
May	19·20	19·00	19·10	0	2					
June	20·00	19·60	19·80	0	2					
July	19·80	19·60	19·70	0	2					
August	20·00	20·00	20·00	0	2					
September	20·20	19·60	19·90	0	2					
October	19·20	19·00	19·10	0	2					
November	19·10	19·00	19·05	0	2					
December	20·00	19·50	19·75	0	2					
January	19·00	18·40	18·70	0	2					
February	18·80	18·40	18·60	0	2					
March	18·80	18·20	18·50	0	2					
				0	24					
Sarnia—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Stratford—										
April			16·70	0	1					
May			17·09	0	1					
June			18·02	0	1					
July			18·90	0	1					
August			18·03	0	1					
September			16·98	0	1					
October			18·01	0	1					
November			17·87	0	1					
December			19·00	0	1					
January			17·77	0	1					
February			17·12	0	1					
March			17·38	0	1					
				0	12					
Toronto—										
April	17·29	16·50	16·79	0	10	13·89	13·39	13·64	0	2
May	17·36	16·49	16·92	0	8	16·75	14·88	15·81	0	2
June	17·38	16·32	16·85	0	8	14·82	14·60	14·71	0	2
July	17·87	16·06	16·85	0	10	15·54	14·22	14·88	0	2
August	17·67	16·49	16·98	0	8	14·47	12·70	13·58	0	2
September	17·38	16·40	16·86	0	10	20·83	17·56	19·19	0	2
October	17·46	16·63	16·94	0	8			17·51	0	1
November	17·15	16·45	16·82	0	8	20·24	17·42	18·83	0	2
December	17·15	16·49	16·88	0	10	16·91	14·81	15·86	0	2
January	18·82	16·46	17·51	0	8	19·46	14·85	17·15	0	2
February	18·72	17·89	18·25	0	8	24·27	19·02	21·64	0	2
March	18·64	17·56	13·03	0	10	20·93	20·92	20·92	0	2
				0	106				0	23

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					24	0	24	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					12	0	12	
					21	0	21	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					10	0	10	
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					10	0	10	
					106	0	106	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Woodstock—										
April			17·00	0	1					
May			17·04	0	1					
June			17·41	0	1					
July			17·11	0	1					
August			17·38	0	1					
September			17·07	0	1					
October			17·34	0	1					
November			17·78	0	1					
December			17·05	0	1					
January			17·19	0	1					
February			17·34	0	1					
March			17·51	0	1					
				0	12					
Montreal—										
April	16·65	16·28	16·51	0	9	2·69	2·61	2·65	0	2
May	17·00	16·20	16·48	0	9	3·24	2·93	3·08	0	2
June	18·53	16·24	17·12	0	8	3·10	2·37	2·73	0	2
July	17·79	16·14	17·13	0	9	3·89	2·88	3·38	0	2
August	18·24	16·41	17·39	0	9	2·22	1·98	2·10	0	2
September	17·89	17·15	17·48	0	8	2·47	1·95	2·21	0	2
October	17·96	16·42	17·08	0	9	3·09	2·50	2·79	0	2
November	17·63	16·51	17·04	0	9	2·81	1·92	2·36	0	2
December	18·78	16·63	17·20	0	9	1·87	1·69	1·78	0	2
January	17·25	16·22	16·75	0	9	2·79	1·80	2·29	0	2
February	17·95	16·17	17·15	0	8	13·64	13·64	13·64	0	2
March	17·43	16·50	16·94	0	8	15·55	15·09	15·32	0	2
				0	104				0	24
Quebec—										
April	17·84	17·26	17·55	0	2	17·91	16·62	17.26	0	2
May	17·66	17·24	17·45	0	2	20·58	15·62	18·10	0	2
June	17·88	17·32	17·60	0	2	17·75	15·47	16·61	0	2
July	17·98	17·10	17·54	0	2	20·29	14·07	17·18	0	2
August	18·06	17·79	17·92	0	2	21·02	18·38	19·70	0	2
September	17·82	17·69	17·75	0	2	19·33	15·74	17·53	0	2
October										
November										
December										
January										
February						18·68	14·33	16·50	0	2
March						19·99	16.99	18.49	0	2
				0	12				0	16
Sherbrooke—										
April										
May										
June										
July										
August										
September										
October			28·58	0	1					
November			31·76	0	1					
December			24·64	0	1					
January			25·78	0	1					
February			26·74	0	1					
March			35·56	0	1					
				0	6					

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times of excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains	Grains						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
			0		11	0	11	
			0		14	0	14	
			0		12	0	12	
			0		14	0	14	
			0		14	0	14	
			0		12	0	12	
			0		14	0	14	
			0		14	0	14	
			0		14	0	14	
			0		12	0	12	
			0		12	0	12	
			0	21	160	0	160	
		0 09	0		0	0		
		0 00	0		0	0		
		0 00	0		0	0		
		0 00	0		0	0		
		0 00	0		0	0		
		0 00	0		0	0		
			0		0	0		
			0		0	0		
			0	16	16	0	16	
					1	0	1	No illuminating test. Photometer out of order.
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					0	1	1	
					0	1	1	
					0	1	1	
					0	1	1	
					1	0	1	
					7	5	12	

APPENDIX

Return of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard. 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
St. Hyacinthe—										
April			18·34	0	1					
May			18·21	0	1					
June			18·52	0	1					
July			18·22	0	1					
August			18·24	0	1					
September			18·32	0	1					
October			18·54	0	1					
November			18·16	0	1					
December			18·48	0	1					
January			18·52	0	1					
February			18·66	0	1					
March			18·64	0	1					
				0	12					
Fredericton—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Saint John—										
April	17·84	16·61	17·22	0	2			24·79	0	1
May			17·64	0	1			24·34	0	1
June	17·72	17·35	17·53	0	2			22·97	0	1
July			17·74	0	1			24·43	0	1
August			18·01	0	1			22·23	0	1
September			17·65	0	1			23·91	0	1
October			17·90	0	1			22·33	0	1
November			17·42	0	1			21·14	0	1
December								23·26	0	1
January								19·82	0	1
February								24·87	0	1
March								20·66	0	1
				0	10				0	12
Moncton—										
April			19·21	0	1					
May			18·00	0	1					
June			19·53	0	1					
July			18·24	0	1					
August										
September										
October										
November										
December										
January										
February										
March										

SESSIONAL PAPER No. 13

F.—*Continued.*

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains	Grains	Grains						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
		0 00	0	1	2	0	2	
		0 00	0	1	1	0	1	
		0 00	0	1	2	0	2	
		0 00	0	1	1	0	1	
		0 00	0	1	1	0	1	
		0 00	0	1	1	0	1	
		0 00	0	1	1	0	1	
		0 00	0	1	.....			Illuminating tests not taken, apparatus being at Ottawa for repairs.
		0 00	0	1	.....			
		0 00	0	1	.....			
		0 00	0	1	.....			
			0	12	10	0	10	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	Ceased manufacturing gas. Natural Gas only.
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest	Average	No. of times below standard.	No. of tests.	Highest	Lowest	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Halifax—										
April			17·58	0	1			16·47	0	1
May			17·55	0	1			13·33	0	1
June			17·08	0	1			8·19	0	1
July			16·99	0	1			12·67	0	1
August			17·09	0	1			12·60	0	1
September			17·15	0	1			14·59	0	1
October			16·58	0	1			12·70	0	1
November			16·91	0	1			11·87	0	1
December			17·00	0	1			5·49	0	1
January			17·48	0	1			17·70	0	1
February			17·45	0	1			8·92	0	1
March			16·46	0	1			9·70	0	1
				0	12				0	12
Yarmouth—										
April			15·78	1	1					
May			15·12	1	1					
June			15·80	1	1					
July			17·00	0	1					
August			17·12	0	1					
September			17·25	0	1					
October			15·82	1	1					
November			15·85	1	1					
December			17·07	0	1					
January			17·30	0	1					
February			17·16	0	1					
March			17·32	0	1					
				5	12					
Charlottetown—										
April	16·02	14·60	15·31	2	3					
May			19·97	0	1					
June			18·94	0	1					
July			17·00	0	1					
August			15·51	1	1					
September			15·53	1	1					
October			16·00	0	1					
November			14·25	1	1					
December	15·80	14·06	14·93	2	2					
January			15·87	0	1					
February			16·04	0	1					
March			14·48	1	1					
				8	15					
Winnipeg—										
April	17·20	15·43	16·39	3	8					
May	16·20	17·77	15·45	4	10					
June	18·38	15·56	16·59	1	8					
July	16·27	14·60	15·52	6	8					
August	18·63	15·12	16·67	3	10					
September	17·90	15·16	16·67	1	8					
October	19·58	16·20	17·42	0	10					
November	17·75	15·47	16·95	1	8					
December	19·36	16·40	17·07	0	8					
January	16·46	12·81	13·98	9	10					
February	14·80	12·50	14·09	8	8					
March	15·04	11·45	13·55	8	8					
				44	104					

SESSIONAL PAPER No. 13

F—*Continued.*

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains.	Grains.						
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					0	3	3	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					2	0	2	
					1	0	1	
					1	0	1	
					1	0	1	
					12	3	15	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					104	0	104	

APPENDIX

Return of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—35 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Calgary—										
April										
May										
June										
July										
August										
September										
October										
November										
December										
January										
February										
March										
Nanaimo—										
April			16·91	0	1					
May			17·00	0	1					
June			16·20	0	1					
July			18·01	0	1					
August			16·61	0	1					
September			17·49	0	1					
October			16·46	0	1					
November			16·27	0	1					
December			16·19	0	1					
January			16·12	0	1					
February			17·70	0	1					
March			16·74	0	1					
				0	12					
New Westminster—										
April			18·71	0	1					
May			18·54	0	1					
June			18·63	0	1					
July			18·51	0	1					
August			18·71	0	1					
September			18·46	0	1					
October			18·34	0	1					
November			18·51	0	1					
December			18·64	0	1					
January			22·80	0	1					
February			22·50	0	1					
March			21·57	0	1					
				0	12					
Vancouver—										
April	17·80	15·30	16·46	3	8					
May	17·80	12·12	15·95	3	10					
June	16·90	16·00	16·47	0	8					
July	17·90	15·70	16·86	1	8					
August	16·74	16·54	16·54	0	2					
September										
October										
November										
December										
January										
February	15·13	13·47	14·53	8	8					
March	19·40	15·30	16·49	2	8					
				17	52					

SESSIONAL PAPER No. 13

F.—*Continued.*

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests.	No. of times absent.	No. of times present.	No. of tests.	
Grains	Grains	Grains						
								No apparatus to date for testing gas.
								"
								"
								"
					1	1	2	
					0	2	2	
					2	0	2	
					1	1	2	
					2	0	2	
					1	1	2	
					2	0	2	
					9	5	14	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					1	0	1	
					12	0	12	
					8	0	8	
					10	0	10	
					8	0	8	
					8	0	8	
					2	0	2	
					4	0	4	No illuminating tests.
					5	0	5	" "
					4	0	4	
					4	0	4	
					5	0	5	
					8	0	8	
					8	0	8	
					74	0	74	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

Inspection Office.	Illuminating Power—Standard 16 Candles.					Sulphur per 100 Cubic Feet. Allowance—4 Grains.				
	Highest	Lowest.	Average	No. of times below standard.	No. of tests.	Highest	Lowest.	Average	No. of times in excess of allowance.	No. of tests.
	Candles	Candles	Candles			Grains.	Grains.	Grains.		
Victoria—										
April	15·93	15·51	15·72	2	2					
May			17·38	0	1					
June			16·07	0	1					
July	16·20	15·94	16·07	1	2					
August			Nil.							
September	16·00	15·59	15·79	1	2					
October										
November										
December										
January										
February										
March										
				4	8					

INLAND REVENUE DEPARTMENT,
OTTAWA, June, 1, 1913.

SESSIONAL PAPER No. 13

F—*Concluded.*

Inspected during the Year ended March 31, 1913.

Ammonia per 100 Cubic Feet. Allowance—4 Grains.					Sulphuretted Hydrogen.			Remarks.
Highest	Lowest.	Average	Times in excess of allowance.	No. of tests	No. of times absent.	No. of times present.	No. of tests.	
Grains.	Grains	Grains						
					2	0	2	
					1	0	1	
					1	0	1	
					2	0	2	
					2	0	2	
					8	0	8	

W. HIMSWORTH,
Deputy Minister.

APPENDIX G.

STATEMENT showing the number of Gas Meters Presented for Verification, Verified, Rejected and Verified after first Rejection, for the Fiscal Year ended March 31, 1913.

Districts.	Presented for Verification.	Kind.		Verified as coming within the error tolerated by law.			Rejected.			Verified after first Rejection.			Totals.	
		Wet.	Dry.	Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.	Rejected.
Barrie	147	....	147	21	47	61	1	7	1	1	5	3	138	9
Belleville	169	....	169	70	35	64	....	....	....	....	....	....	169	....
Berlin	738	....	738	89	98	517	3	9	22	....	....	....	704	34
Brockville	92	....	92	56	4	32	....	....	....	....	....	..	92	....
Cobourg	168	....	168	8	60	96	....	....	4	....	....	....	164	4
Cornwall	95	....	95	26	10	43	2	1	13	....	....	....	79	16
Guelph	748	....	748	....	129	583	4	20	4	....	2	6	720	28
Hamilton	9,912	....	9,912	1,511	1,525	6,874	....	2	..	..	....	....	9,910	2
Kingston	482	....	482	156	17	307	....	....	1	1	....	....	481	1
Listowel	....	....	....	....	....	....	....	....	....	....	....	....	....	....
London	4,009	...	4,009	888	792	2,261	....	58	10	...	...	...	3,941	68
Napanee	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ottawa	1,808	....	1,808	425	464	918	....	1	....	....	....	....	1,807	1
Owen Sound	219	...	219	163	7	10	....	....	....	37	...	2	219	....
Peterborough	334	....	334	80	34	220	...	...	....	....	....	....	334	....
Sarnia	514	....	514	356	13	143	....	1	1	...	....	....	512	2
Stratford	81	....	81	15	17	45	2	2	....	....	....	....	77	4
Toronto	23,215	....	23,215	5,581	4,278	13,237	....	76	43	....	....	....	23,096	119
Woodstock	348	....	348	20	104	224	....	....	....	....	....	....	318	....
Montreal	27,002	....	27,002	3,365	9,423	13,721	108	283	102	..	....	....	26,509	493
Quebec	834	...	834	303	79	452	...	....	....	..	....	...	834	....
Sherbrooke	190	...	190	94	39	57	....	....	....	....	..	...	190	....
St. Hyacinthe	110	...	110	77	18	15	....	..	....	..	...	....	110	...
Fredericton	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. John	1,339	....	1,339	737	24	577	....	....	1	...	..	....	1,338	1
Halifax	186	....	186	124	18	43	....	..	1	..	...	....	185	1
Charlottetown	21	....	21	2	4	11	3	1	....	....	...	....	17	4
Winnipeg	3,595	....	3,595	1,610	659	1,326	....	..	....	....	....	....	3,595	....
Calgary	6,992	....	6,992	594	764	5,613	2	18	....	....	....	1	6,972	20
Nanaimo	132	....	132	74	11	47	....	....	....	....	...	....	132	....
New Westminster	76	....	76	17	15	44	....	..	....	....	....	....	76	....
Vancouver	3,770	....	3,770	1,087	999	1,593	....	42	32	6	3	8	3,696	74
Victoria	910	...	910	241	283	386	..	....	...	....	....	....	910	....
Totals	88,236	....	88,236	17,790	19,970	49,520	125	521	235	45	16	20	87,355	881

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX H.

STATEMENT of Electric Light Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance.	Rent	Travelling Expenses.	Sundries.	Total.	
		$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
Belleville	Fraser, H Johnston, C.W	1,036 25	20 00		134 30	17 12	1,507 67	1,888 90
Fort William.	Little, E	245 16	2 00		87 65	49 51	384 32	68 20
Hamilton	Lutz, H		250 25		228 10	195 53	673 88	1,339 05
London	Nash, A. F		62 49		371 90	37 35	471 74	3,315 80
Ottawa	Roche, H. G				681 80		681 80	3,772 55
Toronto	Stiver, J. L				917 45	53 74	1,001 19	14,445 60
	Ontario	1,281 41	334 74		2,751 20	353 25	4,720 60	27,830 10
Montreal	Aubin, A		1,056 91		72 45	36 53	1,165 89	9,785 30
Quebec	LeVasseur, N		50 00	161 25	23 90	250 06	495 21	781 80
Sherbrooke	Simpson, A. F				143 41	19 45	162 86	502 10
St. Hyacinthe	Provost, L. E	300 00			91 50	1 90	393 40	258 75
Three Rivers	Robitaille, G. W	500 00		120 00	100 00	15 02	735 02	147 90
	Quebec	800 00	1,106 91	281 25	431 26	322 96	2,952 38	11,475 85
St. John, N.B.	Wilson, J. E				202 35	21 15	223 50	1,227 75
Halifax, N.S	Toale, J		25 00		419 74	86 38	531 12	1,679 70
Charlottetown, P.E.I	Bell, J. H		10 00		30 40	45 32	115 72	115 35
Winnipeg, Man	Hamilton, R		2,135 26	325 00	571 60	196 02	3,227 88	12,250 00
Regina, Sask	Hunter, W. M	1,300 00			1,104 45	498 97	2,903 42	2,274 90
Calgary	Kyle, W. P Jones, Bruce	1,800 00	22 00		280 80	110 87	2,213 67	3,833 55
Edmonton	Roe, E. A	1,500 00			154 55	94 84	1,749 39	2,208 35
	Alberta	3,300 00	22 00		435 35	205 71	3,963 06	6,041 90
Vancouver	Stott, J Templeton, W. A Power, O. S. Scouler, G. T.	4,699 92	849 96		303 10	395 19	6,248 17	9,096 30
Victoria	Dresser, F		17 00		104 00	38 45	159 45	2,211 45
	British Columbia	4,699 92	866 96		407 10	433 94	6,407 92	11,337 75
Dawson, Yukon	McDonald, J. F.	500 00						500 00
Chief Electric Engineer			313 00		140 87	838 39	1,292 26	
Inspector, Eastern Dominion		2,474 98			186 85		2,661 83	
Inspector, Western Dominion		2,471 98			628 35	363 43	3,466 76	
Kinsman, E.A.		331 15					331 15	

APPENDIX H—*Concluded.*

STATEMENT of Electric Light Expenditures and Revenues for the Fiscal Year ended March 31, 1913.

Districts.	Inspectors and Assistants.	Expenditures.						Revenues.
		Salaries.	Special Assistance	Rent.	Travelling Expenses.	Sundries.	Total.	
		$ cts.	$ cts.	$ cts.	$ cts	$ cts.	$ cts.	$ cts.
General Contingencies						8,700 97	8,700 97	
Printing						223 68	223 68	
Stationery						246 47	246 47	
International Electro-technical Commission						*244 16	244 16	
	Grand Totals..	17,162 44	4,853 87	606 25	7,309 52	12,780 80	42,712 88	74,833 80

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX I.

STATEMENT showing the number of Electric Meters Presented for Verification, Verified, Rejected and Verified after first Rejection, for the fiscal year ended March 31, 1913.

Districts.	Presented for Verification.	Verified as coming within the error tolerated by law.			Rejected[1]			Verified after first Rejection.			Totals.	
		Correct.	Fast.	Slow.	Unsound.	Fast.	Slow	Correct.	Fast.	Slow.	Verified.	Rejected.
Belleville	3,063	1,625	826	611			1				3,062	1
Fort William	111	38	31	42							111	
Hamilton	7,091	4,140	1,198	1,752			1				7,090	1
London	5,180	1,838	1,827	1,505	1	4	5				5,170	10
Ottawa	6,112	754	3,650	1,691	5	2	10				6,095	17
Toronto	21,448	10,358	5,909	5,162		4	11	2	1	1	21,433	15
Montreal	16,130	12,592	2,260	1,278							16,130	
Quebec	1,303	1,168	20	111			2	2			1,301	2
Sherbrooke	800	294	219	287							800	
St. Hyacinthe	395	127	197	71							395	
Three Rivers	245	187	28	30							245	
St. John	2,020	761	798	448		7	6				2,007	13
Halifax	2,752	1,658	803	215	68	1	7				2,676	76
Charlottetown	192	79	50	60	3						189	3
Winnipeg	19,279	4,497	9,834	4,941	2	1	2		2		19,274	5
Regina	3,738	1,496	1,663	560	5	7	7				3,719	19
Calgary	6,265	1,668	3,155	1,432		6	1	2		1	6,258	7
Edmonton	1,565	1,708	2,555	242							1,565	
Vancouver	14,414	5,125	7,212	1,757	1	12	5	1		1	14,396	18
Victoria	3,536	1,756	1,318	460		1	1				3,534	2
Totals	118,639	52,229	43,553	22,655	85	45	59	7	3	3	118,150	184

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX J.

STATEMENT showing Amount of Electrical Energy, Gas or Fluid generated or produced for Export and for Consumption in Canada, under the Authority of the Electricity and Fluid Exportation Act, for the Year ending March 31, 1913.

Name of Contractor and Place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		K. W. Hours.	H.P. Years.	K. W. Hours.	H P. Years.	K. W. Hours.	H.P. Years.
	1912.						
Ontario & Minnesota Power Co., Ltd.—Fort Frances, Ont.	April	1,599,870	244·83	79,890	12·25	1,679,760	257·08
	May	1,699,820	260·11	66,953	10·25	1,766,773	270·36
	June	1,609,220	246·25	58,173	8·90	1,667,393	255·15
	July	1,678,650	256·87	122,295	18·71	1,800,945	275·58
	August	1,835,260	280·84	138,138	21·14	1,973,398	301·98
	September	1,748,020	267·49	100,420	15·37	1,848,440	282·86
	October	1,914,300	292·93	113,998	17·44	2,028,298	310·37
	November	1,858,730	299·73	105,102	16·08	1,963,832	315·81
	December	1,844,000	282·18	80,830	12·37	1,924,830	294·55
	1913.						
	January	1,951,950	298·69	74,543	11·41	2,026,493	310·10
	February	1,715,050	262·42	64,376	9·85	1,779,426	272·27
	March	1,778,650	341·86	89,795	13·74	1,868,445	355·60
	Totals	21,233,520	3,334·20	1,094,513	167·51	22,328,033	3,501·71
	1912.						
Canadian Niagara Power Co.—Niagara Falls, Ont.	April	27,668,710	4,233·95	1,077,290	164·85	28,746,000	4,398·80
	May	27,136,330	4,152·49	876,670	134·15	28,013,000	4,286·64
	June	26,209,800	4,010·71	520,260	79·60	26,730,060	4,090·31
	July	26,897,890	4,116·00	522,110	79·90	27,420,000	4,195·90
	August	26,171,310	4,004·82	923,690	141·34	27,095,000	4,146·16
	September	25,917,620	3,965·99	809,380	123·86	26,727,000	4,089·85
	October	28,248,330	4,321·65	802,670	123·83	29,051,000	4,445·48
	November	26,948,602	4,123·76	1,014,648	155·26	27,963,250	4,279·02
	December	27,212,730	4,168·77	926,270	141·74	28,169,000	4,310·51
	1913.						
	January	27,623,300	4,227·00	1,174,700	179·76	28,798,000	4,406·76
	February	24,898,120	3,809·99	1,151,880	176·26	26,050,000	3,986·25
	March	30,813,100	4,715·12	1,187,480	181·69	32,000,580	4,896·81
	Totals	325,775,842	49,850·25	10,986,988	1,682·24	336,762,830	51,532·49
	1912.						
Ontario Power Co. of Niagara Falls, Ont.	April	19,147,828	2,930·06	20,846,772	3,190·04	39,994,600	6,120·10
	May	18,236,327	2,790·57	19,146,173	2,929·82	37,382,500	5,720·39
	June	18,649,309	2,853·71	17,776,691	2,720·31	36,426,000	5,574·02
	July	20,432,174	3,127·60	21,295,026	3,257·53	41,727,200	6,385·13
	August	21,621,672	3,308·62	22,228,728	3,401·51	43,850,400	6,710·13
	September	20,291,237	3,105·03	22,455,313	3,436·20	42,746,550	6,541·23
	October	22,339,396	3,418·44	25,850,204	3,955·68	48,189,600	7,374·12
	November	21,729,341	3,325·09	26,593,659	3,969·45	48,323,000	7,394·54
	December	23,016,906	3,522·12	27,319,902	4,180·58	50,336,808	7,702·70
	1913.						
	January	22,882,158	3,501·50	28,190,942	4,314·17	51,075,100	7,815·67
	February	22,062,994	3,376·15	24,861,406	3,804·37	46,924,400	7,180·52
	March	23,877,238	3,653·77	28,384,162	4,343·43	52,261,400	7,997·20
	Totals	254,286,580	38,912·66	284,950,978	43,503·09	539,237,558	82,515·75

APPENDIX J.—*Continued.*

STATEMENT showing amount of Electrical Energy, Gas, or Fluid generated or produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the year ending March 31, 1913.

Name of Contractor and Place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours	H.P. Years.
	1912.						
Electrical Development Co., of Ontario, Niagara Falls, Ont.	April	3,096,800	473 88	12,085,000	1,849 30	15,181,800	2,323 18
	May	2,399,700	367 21	11,998,007	1,835 97	14,397,707	2,203 18
	June	2,103,400	267 78	11,195,458	1,713 16	13,598,858	2,080 94
	July	2,343,100	358 55	11,281,168	1,726 28	13,624,268	2,084 83
	August	2,177,500	333 21	11,940,718	1,827 21	14,118,218	2,160 42
	September	2,539,100	388 59	12,111,045	1,853 27	14,650,145	2,241 86
	October	4,800,800	734 63	13,102,587	2,005 00	17,903,387	2,739 63
	November	6,511,100	1,000 94	13,918,941	2,129 92	20,430,041	3,130 86
	December	7,787,100	1,191 61	15,065,796	2,305 63	23,052,896	3,528 24
	1913.						
	January	8,148,800	1,246 96	14,986,390	2,293 26	23,135,190	3,540 22
	February	8,750,500	1,339 03	13,981,588	2,139 97	22,732,088	3,479 00
	March	4,046,000	619 12	13,703,120	2,097 42	17,749,120	2,716 54
	Totals	55,034,200	8,421 61	155,773,208	23,837 39	210,807,408	32,258 90
	1912.						
Maine and New Brunswick Electrical Power Co., Aroostook Falls, N.B.	April	165,134	25 32	4,266	65	169,700	25 97
	May	160,149	24 51	3,951	60	164,100	25 11
	June	167,300	25 60	3,561	54	170,861	26 14
	July	172,900	26 11	3,551	54	176,151	26 95
	August	156,000	23 96	4,303	66	160,303	24 62
	September	175,500	26 80	4,569	69	180,069	27 55
	October	219,300	33 56	5,671	87	224,971	34 43
	November	246,500	37 72	7,156	1 10	253,656	38 82
	December	244,800	37 46	7,695	1 18	252,495	38 64
	1913.						
	January	233,520	35 73	7,180	1 10	240,700	36 83
	February	210,743	32 25	5,557	85	216,300	33 10
	March	219,000	33 51	5,667	87	224,667	34 38
	Totals	2,371,146	362 80	63,070	9 65	2,434,516	372 54
	1912.						
British Columbia Electric Railway Co., Vancouver, B.C.	April	15,480	2 37	8,600,109	1,316 06	8,615,589	1,318 43
	May	15,308	2 34	8,878,125	1,358 56	8,893,433	1,361 00
	June	13,930	2 13	8,300,342	1,270 14	8,314,272	1,272 27
	July	15,520	2 37	8,980,839	1,376 28	8,996,359	1,376 65
	August	22,590	3 46	9,556,223	1,435 61	9,578,813	1,459 07
	September	20,730	3 17	9,536,690	1,459 34	9,557,420	1,462 51
	October	26,240	4 02	10,927,108	1,671 10	10,953,348	1,675 12
	November	33,905	5 08	11,208,285	1,715 13	11,241,190	1,720 21
	December	33,900	5 19	11,712,100	1,792 22	11,746,000	1,797 41
	1913.						
	January	33,440	5 12	11,746,992	1,797 56	11,780,432	1,802 68
	February	26,020	3 98	10,383,391	1,588 90	10,409,411	1,592 88
	March	26,020	3 98	10,958,684	1,676 93	10,984,704	1,680 91
	Totals	282,383	43 21	120,789,188	18,477 83	121,071,571	18,519 14

APPENDIX J—*Continued.*

STATEMENT showing amount of Electrical Energy, Gas, or Fluid generated or produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the year ending March 31, 1913.

Name of Contractor and place of Business.	Month.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.	K.W. Hours.	H.P. Years.
	1912.						
Western Canada Power Co., Ltd., Vancouver, B.C.	April	8,544	1·31	901,431	138·40	912,975	139·71
	May.	12,984	1·99	1,311,561	200·70	1,324,545	202·69
	June.	13,920	2·13	1,573,010	240·71	1,586,930	242·84
	July.....	8,112	1·24	1,614,257	247·02	1,622,369	248·26
	August.	6,192	0·95	1,842,926	282·02	1,849,118	282·97
	September..	100,000	15·30	1,841,951	281·96	1,941,951	297·26
	October	100,000	15·30	2,017,009	308·65	2,117,009	325·95
	November..	100,000	15·30	1,723,725	263·77	1,823,725	279·07
	December ..	100,000	15·30	1,811,065	277·13	1,911,065	292·43
	1913.						
	January. ..	431,975	66·10	1,155,218	177·00	1,587,193	243·99
	February. ..	773,370	118·34	1,051,805	160·95	1,835,175	279·29
	March.... .	1,604,596	245·54	1,344,604	205·76	2,949,200	451·30
	Totals..	3,259,693	498·80	18,191,562	2,784·87	21,461,255	3,285·67

W. HIMSWORTH,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

APPENDIX K

STATEMENT showing total amount of Electrical Energy expressed in Kilowatt Hours and Horse Power Years, Generated for Export and for Consumption in Canada, by the Hydro Electric Companies during the Fiscal Year ended March 31, 1913

Name of Contractor.	Place of Business.	Units Produced for Export.		Units Produced for use in Canada.		Total Output of Generating Station or other Source.	
		Kilowatt Hours.	Horse Power Years.	Kilowatt Hours.	Horse Power Years.	Kilowatt Hours.	Horse Power Years.
Ontario & Minnesota Power Co	Fort Frances, Ont.	21,233,520	3,334·20	1,094,513	167·51	22,328,033	3,501·71
Canadian Niagara Power Co.	Niagara Falls, Ont	325,775,842	49,850·25	10,986,988	1,682·24	336,762,830	51,532·49
Electrical Development Co	"	55,034,200	8,421·51	155,773,208	23,837·39	210,807,408	32,258·90	
Ontario Power Co.	"	254,286,580	38,912·66	284,950,978	43,503·09	539,237,558	82,515·75
* Electrical Distributing Co	Windsor, Ont						
* Sherbrooke Ry. & Power Co	Sherbrooke, Que.						
Maine & New Brunswick Electric Power Co.	Aroostook Falls, N.B.	2,371,446	362·89	63,070	9·65	2,434,516	372·54
British Columbia Electric Ry. Co	Vancouver, B.C.	282,383	43·21	120,789,188	18,177·83	121,071,571	18,519·14
Western Canada Power Co.	"	3,259,693	498·80	18,191,562	2,781·87	21,461,255	3,285·67
* Cedars Rapids Power Co.	Soulanges, Que.						
Totals		662,243,664	101,123·52	591,849,507	90,462·58	1,254,103,171	191,986·20

* These companies have not yet commenced to export.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 1, 1913.

W. HIMSWORTH,
Deputy Minister.

REPORTS, RETURNS AND STATISTICS

OF THE

INLAND REVENUES

OF THE

DOMINION OF CANADA

FOR THE FISCAL YEAR ENDED MARCH 31

1913

PART III

ADULTERATION OF FOOD

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1914

[No. 14—1914]

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REPORT

OF THE

DEPUTY MINISTER OF INLAND REVENUE

To the Hon. W. B. Nantel,
Minster of Inland Revenue.

Sir,—I have the honour to submit herewith a statement showing the work done by the Chief Analyst and staff at Ottawa for the year ending March 31, 1913.

Description.	Genuine.	Doubtful.	Adulterated.	Sold as Compound.	Total.	Remarks.
Lard	262		2	1	268	3 contain water accidently.
Butter	152	1	4		157	
Cider and Sweet Cider	35	1	29		69	2 not sold as a cider, 2 concentrated with sugar.
Baking Powders	115 up to standard strength.		*35 below standard strength.		150	
Registered Stock Feeds	64 up to guarantee, 5 up to standard requirements.	1	†22 below guarantee. ‡4 below standard requirements.		138	11 Cattle Medicines, 1 unregistered illegal.
Fertilizer Inspection	313		3		324	1 not a fertilizer, 7 specially considered.
Cocoas and Chocolate					252	
Fruit Jams				3	158	155 explained in Bulletin 241.
Vanilla Flavouring Extract	13		40 mixture	27 artific'l	80	
Canned Tomatoes					140	
Cheese					141	
Ground Black Pepper	223	11	45	1	280	
Bottled Pickles					80	
Ground White Pepper	215	5	53		273	
Ground Cinnamon and Cassia	198 apparently genuine.	14	12		250	4 lost by mistake, 22 Ash abnormal.
Ground Cloves a study					141	
Turpentine sold as a drug	106	5	47		158	
Bran Shorts and Chop Feed	364		32		396	
Sweet Spirit of Nitre	41		32		73	
Olive Oil	34		2		36	
Milk Powders and Condensed Milk					30	

*35 below standard strength. †22 below guarantee. ‡4 below standard requirements.

Since the issue of the Report of last year, the Advisory Board, of which the Chief Analyst is Chairman, have devoted considerable time and work on the establishing of further standards for food products and the following have been duly legalized under the provisions of Section 26 of the Act.

Edible Oils.
Edible Vegetable Oils.
Standard for Commercial Turpentine.
Fruit and Fruit Products.
Flavouring Extracts.
Canned Peas.
Honey.
Limits for Arsenic.

Further work in this direction is progressing, the result of which will be published in the next Annual Report.

The provisions of the "Commercial Feeding Stuffs Act" and the "Fertilizers Act" relative to the registration of brands have been, I believe, well carried out.

I have the honour to be, sir,

Your obedient servant,

WM. HIMSWORTH,
Deputy Minister.

REPORT OF THE CHIEF ANALYST

OTTAWA, October 31, 1913.

WM. HIMSWORTH, Esq.,
Deputy Minister,
Inland Revenue Dept.,
Ottawa.

SIR,—I have the honour to report upon the work done in these laboratories during the fiscal year ending March 31, 1913.

The total number of samples of Foods, Drugs and Fertilizers collected by our inspectors during the period named, is 3,609; and the results of analysis of these samples, together with full details concerning them, are published in Bulletins Nos. 237 to 257, both inclusive.

Number of Bulletin.	Subject.	Number of Samples.
237	Lard	208
238	Butter	157
239	Cider	69
240	Baking Powders	150
241	Stock Foods (Registered)	138
242	Fertilizers	321
243	Cocoa and Chocolate	252
244	Jams	178
245	Extract of Vanilla	80
246	Canned Tomatoes	140
247	Cheese	141
248	Black Pepper	280
249	Pickles	80
250	White Pepper	275
251	Cinnamon	250
252	Cloves	141
253	Turpentine	158
254	Bran, &c	396
255	Nitrous Ether	73
256	Olive Oil	36
257	Milk Powders	15
21 Bulletins.	Total samples in same	3,609

Other samples analysed, and reported directly to the Deputy Minister, are as follows:—

OCCASIONAL SAMPLES, 1912-1913.

Drugs.	Samples.
Acetic Acid	67
Alcohol	3
Arsenate of Lead	1
Chloroform	10
Desinfectants	2
Dyes	2
Fusel Oil	4

	Samples.
Kelp	1
Ketones	2
Linseed oil	6
Miscellaneous	10
Paints	2
Seidlitz powders	12
Soothing syrups	11
Turpentine	1
Total	134
Fertilizers	48
Baking powders	19
Beer	14
Biscuits	1
Brandy	1
Butter	59
Cider	4
Coal	1
Coffee	4
Egg Substitutes	1
Extracts	12
Feeding Stuffs	3
Fruit	2
Gin	1
Ginger	3
Grape Juice	1
Grease	1
Honey	1
Jam	11
Lard	4
Lemonade	1
Malt	1
Milk	3
Mustard	1
Salt	3
Sugar	6
Syrup	30
Tapioca	2
Tea	5
Vinegar	7
Water	26
Whiskey	4
Wine	5
Total	419

In addition to the above, we have tested Vinegar samples for Excise 374

and have supplied the following standard solutions to the various offices:—

Winchesters Normal Soda	85
Phenolphthalein	16
Normal sulphuric acid	6
Total	107

The staff of these Laboratories during the past year has consisted of the following:—

Chief Analyst	1
Assistants Analysts—	
(for the whole year)	5
(for six months)	2
Laboratory assistant	1
Recording clerk	1
Shipping clerk	1
Secretary	1
Messenger	1

The following standards for foods, etc., have been put into force by Order in Council, under authority of Section 26 of the Adulteration Act:—

STANDARDS, ETC.—

Edible Oils (Vegetable) (G. 1002)	April 19, 1912
Turpentine (G. 1022)	June 6, 1912
Lard (Amendment to G. 1040)	Oct. 22, 1912
Fruit and Fruit Products (G. 1044)	Oct. 29, 1912
Flavouring Extracts (G. 1045)	Oct. 29, 1912
Canned Peas (G. 1046)	Oct. 29, 1912
Honey (G. 1047)	Oct. 29, 1912
Limits for Arsenic (G. 1048)	Nov. 4, 1912
Examinations (G. 1051)	Nov. 23, 1912
Rearrangements of Food Inspection Districts	Sept. 10, 1912

Details of the work of the year are published as Bulletins Nos. 237 to 257, which are appended to this report.

A large portion of the time of one of the assistant Analysts (Mr. Lemoine) has been given to the advisory work connected with the Proprietary and Patent Medicines Act.

I have the honour to be, sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, April 9, 1912.

MEMORANDUM.

Under the authority of an Order of His Royal Highness in Council, bearing date the twenty-eight day of March ultimo, and in virtue of the provisions of the twenty-sixth section of the 'Adulteration Act,' the following standards of quality have been established for 'Edible Vegetable Oils':—

EDIBLE VEGETABLE OILS.

1. *Olive Oil, Sweet Oil*, is entirely a product of the fruit of the olive tree.

Its specific gravity, at 15·5°C., is not less than 0·9140 nor more than 0·9196.

Its specific refractive index, at 15·5°C., is not less than 1·4700 nor more than 1·4718.

Its Maumene number lies between 42 and 52.

Its iodine absorption number (using the Hubl solution) lies between 77 per cent and 94 per cent.

Its saponification number (Koettstorfer number) lies between 185·0 and 195·0.

It does not contain above 3·5 per cent of free fatty acids.

2. *Cotton Seed Oil* is the oil obtained from the seeds of cotton plants and subjected to refining processes. It is free from rancidity; has specific gravity, at 15·5° C., between 0·9216 and 0·9300; has a refractive index (at 25°C.) not less than 1·4700 and not more than 1·4725, and an iodine number not less than 104 nor more than 110 (Hubl solution).

3. *Salad Oil.*—Either of the above may be sold as salad oil; but when Cotton Seed Oil is offered as Salad Oil, the fact that the article is Cotton Seed Oil must be declared on the label.

4. Mixtures of Cotton Seed Oil with Olive Oil must be so declared on the label.

The standards above defined take effect on the 13th May proximo.

W. J. GERALD,
Deputy Minister.

PRIVY COUNCIL, CANADA.

AT THE GOVERNMENT HOUSE AT OTTAWA,
THURSDAY, the 6th day of June, 1912.

Present:

HIS ROYAL HIGHNESS THE GOVERNOR GENERAL IN COUNCIL.

His Royal Highness the Governor General in Council, in virtue of the provisions of Section 27 of Chapter 133, Revised Statutes of Canada, 1906, 'An Act respecting the Adulteration of Food and other Articles,' is pleased to order as follows:—

Turpentine is hereby added to Schedule 4 of the above described Act and the definition thereof shall be as hereinafter set forth:—

STANDARDS FOR TURPENTINE.

1. When turpentine is sold as a drug, for medicinal purposes or to the order of a physician, it shall meet pharmacopoeal requirements as provided by section 7 of the said Act.

II. When turpentine is sold under any other conditions than for purposes of medicine, as above, it shall meet the following requirements:—

(1) It shall be entirely free from mineral oil.

(2) Unless sold as wood turpentine, it shall absorb not less than 340 times its weight of iodine (Hubl Solution and Method). If sold as wood turpentine it shall absorb not less than 240 times its weight of iodine by same method.

(3) The undissolved (unpolymerized) residue on treatment of 10cc with 40cc of a sulphuric acid containing 20 per cent of the fuming acid, shall not exceed 10 per cent by volume of the sample.

(4) The refractive index of this residue shall be not less than 1·4950 at 20°C.

(5) The refractive index of the sample at 20°C. shall lie between 1·4680 and 1·4730.

(6) The specific gravity of the sample at 20°C. shall not be less than 0·860.

(7) The initial boiling point shall not be lower than 150°C. under ordinary atmospheric pressure.

(8) At least 75 per cent by volume shall distil below 160°C.

(9) The residue on evaporation over a steam bath shall not exceed two (2) per cent.

RODOLPHE BOUDREAU,
Clerk of the Privy Council.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, October 29, 1912.

MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th day of October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act,' the following standards of quality have been established for 'Fruit and Fruit Products':—

FRUIT AND FRUIT PRODUCTS.

1. Fruits are the clean, sound, edible, fleshy fructifications of plants, distinguished by their sweet, acid and ethereal flavours.

2. Dried fruit is the clean, sound product made by drying matured properly prepared fresh fruit in such a way as to take up no harmful substances; and conforms in name to the fruit used in its preparation.

3. Evaporated fruit is dried fruit in whose preparation artificial heat has been employed.

4. Evaporated Apples shall contain not more than 27 per cent of moisture.

5. Canned Fruit is the sound product made by sterilizing clean, sound, properly matured and prepared fresh fruit, by heating with or without sugar, and keeping in suitable clean, hermetically sealed containers; and conforms in name to the fruit used in its preparation.

6. Preserve is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar syrup, with or without spices and vinegar, and conforms in name to the fruit used in its preparation.

7. Jam, Marmalade, is the sound product made from clean, sound, properly matured and prepared fresh fruit or fruit pulp and sugar, with or without spices or vinegar, by boiling to a semi-solid consistence, and conforms in name to the fruit used in its preparation.

8. Fruit Butter is the sound product made from fruit juice, and clean, sound, properly matured and prepared fruit, boiled to a semi-solid mass of homogeneous

consistence, with or without the addition of sugar and spices or vinegar, and conforms in name to the fruit used in its preparation.

9. Jelly, Fruit Jelly, is the sound, semi-solid geletinous product made by boiling clean, sound properly matured and prepared fresh fruit with water, concentrating the expressed and strained juice, to which sugar is added, and conforms in name to the fruit used in its preparation.

10. When Jam, Marmalade, Fruit Butter or Jelly contains other fruit or fruit juice than that which gives its special name to the article, the fact of the presence of such other fruit shall be stated upon the label, in lettering as large and as distinct as that used in naming the fruit principally present. This requirement does not, however, apply to the use of fruit juice, up to the amount of ten (10) per cent of the weight of the jam, etc., used instead of water in the manufacture of the jam, etc.

11. When the sugar in preserve, jam, marmalade, fruit butter or jelly is wholly or partially replaced by glucose, or by any other substitute for sugar, the fact of such substitution shall be stated upon the label in plain lettering.

The Standards above defined take effect on the 25th November, 1912.

WM. HIMSWORTH,
Acting Deputy Minister.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, September 4, 1913.

SIR,—I beg to inform you that under an Order of His Excellency, the Administrator in Council, dated the 25th August, 1913, the Order in Council of the 17th October, 1912, establishing Standards for Fruit and Fruit Products has been amended by adding another Section thereto, under the title of Section 12, which reads as follows:—

SECTION 12.

'When Jam, Jelly, Marmalade, etc., are prepared from two or more sorts of 'fruits, the first named fruit on the label shall be that which is present in largest 'amount: thus a jam made from Strawberries and Apples or Apple Pulp or Apple 'Jelly, shall be labelled as Strawberry and Apple Jam, only if the weight of Straw-'berries used exceeds the weight of Apples or Apple Pulp or Apple Jelly in the 'product; where the weight of Apples or Apple Pulp or Apple Jelly exceeds the 'weight of Strawberries used, the label shall read, 'Apple and Strawberry Jam,' 'or 'Apple Jam flavoured with Strawberries' or otherwise, in such a way as to make 'clear the fact that Strawberries are not the chief constituent.'

I remain, sir,

Your obedient servant,

WM. HIMSWORTH,
Deputy Minister.

SESSIONAL PAPER No. 14

DEPARTMENT OF INLAND REVENUE,
OTTAWA, October 29, 1912.

MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th day of October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act' the following standards of quality have been established for 'Flavouring Extracts':—

FLAVOURING EXTRACTS.

1. A Flavouring Extract intended for the purpose of flavouring food, is a solution of correct strength, as hereinafter defined, of sapid and odorous principles derived from an aromatic plant or parts of a plant, with or without its natural colouring matters, and conforms in name to the plant used in its preparations.

2. The usual solvents employed in the preparation of flavouring extracts are ethyl alcohol, water and glycerine. In the event of any other solvents than ethyl alcohol, water and glycerine being used, such solvents shall be harmless to health, and their names shall be plainly stated on the label.

3. Solutions of natural or synthetic preparations such as vanillin, coumarin, benzaldehyde, methyl salicylate or other sapid and odorous compounds, more or less resembling substances found in plants, or absolutely identical with these, if harmless to health, may be sold for flavouring purposes, if properly labelled so as to make it quite clear that they are not extracts as above defined; and preferably by the use of the word Artificial or Imitation.

4. If an extract be fortified or strengthened by having such natural or synthetic preparations as are referred to in the immediately preceding section added to it, the fact of such addition shall be clearly stated on the label, or the word 'compound' or 'mixture' shall be used to describe it.

5. Lemon Extract is the flavouring extract prepared from lemon peel, or from oil of lemon, and contains along with more or less of the terpenes of lemon oil not less than two-tenths (0·2) of one per cent of citral derived from oil of lemon.

6. Terpene Lemon Extract is the flavouring extract prepared as above described, and contains not less than five (5) per cent of oil of lemon, and not less than two-tenths (0·2) of one per cent of citral, derived from oil of lemon.

7. Vanilla Extract is the flavouring extract prepared from vanilla bean with or without sugar or glycerine, and contains in 100 cubic centimetres the soluble matters from not less than five (5) grams of vanilla bean (the dried, cured fruit of Vanilla planifolia).

The Standards above defined take effect on the 25th November, 1912.

WM. HIMSWORTH,
Acting Deputy Minister

DEPARTMENT OF INLAND REVENUE,
OTTAWA, October 29, 1912.

MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th day of October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act,' the following standards of quality have been established for 'Canned Peas':—

CANNED PEAS.

1. Canned Peas, unless specially designated as below, shall be prepared from the harvest of the year in which they are canned, and shall be the unripe peas of the crop of that year.

2. Ripe Peas may be canned, provided that the label shows quite clearly that they are such. This may be done either by labelling them as Canned Ripe Peas, or by the use of the word Soaked.

3. Mixtures of ripe and unripe (or green) peas, shall be plainly labelled in such a way as to show that they are mixtures.

4. Peas which do not comply with the above regulations shall be deemed to be adulterated under the Act.

The Standards above defined to take effect on the 25th November, 1912.

WM. HIMSWORTH,
Acting Deputy Minister.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, October 29, 1912.

MEMORANDUM.

Under the authority of an Order of His Excellency the Deputy Governor General in Council, bearing date the 17th October, 1912, and in virtue of the provisions of the 26th Section of the 'Adulteration Act' the following standard of quality has been established for 'Honey':—

HONEY.

Honey is entirely the product of the work of bees operating upon the Nectar of Flowers, and other saccharine exudations of plants; and contains not more than twenty-five (25) per cent of water; not more than eight (8) per cent of Suerose (Cane Sugar); not more than twenty-five hundredths (0.25) of one per cent of ash; and not less than sixty (60) per cent of Invert Sugar.

The Standard above defined takes effect on the 25th November, 1912.

WM. HIMSWORTH,
Acting Deputy Minister.

DEPARTMENT OF INLAND REVENUE,
OTTAWA, November 4, 1912.

MEMORANDUM.

Under the authority of an Order of His Royal Highness in Council, bearing date the 24th day of October, 1912, and in virtue of the provisions of the 26th Section of 'An Act Respecting the Adulteration of Food and Other Articles,' Chapter 133 of the Revised Statutes of Canada, 1906, the following limits of arsenic (As $_2$ O $_3$) in Foods and Food Materials, have been established:—

'Arsenic (Arsenious acid, As_2O_3) shall not be present in Foods or Food 'Materials in excess of the following amounts:—

'Citric Acid.....1 part per million.
'Tartaric.....1 part per million.
'Cream of Tartar.....2 parts per million.
'Bi-carbonate of Soda.....2 parts per million.
'Phosphoric Acid.....5 parts per million.
'Phosphate of Lime.....5 parts per million.
'Phosphate of Soda.....5 parts per million.
'Boric (Boracic) Acid.....4 parts per million.
'Baking Powders.....2 parts per million.

'The above named articles shall be declared to be adulterated when found to contain arsenic in excess of the amounts above mentioned.'

The Standards above defined take effect on the 2nd December, 1912.

WM. HIMSWORTH,
Acting Deputy Minister.

APPENDIX A.

BULLETIN No. 237—LARD.

OTTAWA, May 13, 1912.

WM. HIMSWORTH, Esq.,
Ass't Deputy Minister, Inland Revenue Dept.,
Ottawa.

SIR,—I beg to report upon 268 samples purchased as lard during the months of October and November of last year. These samples have been examined as regards their genuineness from the point of view of their conformity to the requirements of an Order-in-Council in effect from November 22, 1910, which defines lard as follows:—

1. Lard is the rendered fresh fat from hogs in good health at the time of slaughter, is clean, free from rancidity, and contains, necessarily incorporated in the process of rendering, not more than one (1) per cent, of substances other than fatty acids and fat.

2. Leaf lard is lard rendered at moderately high temperatures from the internal fat of the abdomen of the hog, excluding that adherent to the intestines, and has an iodine number not greater than sixty-five (65) and contains not more than one (1) per cent, of substances other than fatty acids and fat

3. Compound lard; Lard compound, etc, is a mixture of animal and vegetable fats and oils. It must be free from rancidity, be made from sound and pure materials, and contain not more than one (1) per cent of substances other than fatty acids and fat.

The articles herein reported were sold to our inspectors as lard, with one exception, No. 45557, which was labelled as a compound.

It will be noted that allowance of only one per cent of substances other than fatty acids and fat, is common to all the grades of lard defined. Three samples of this collection contain an excess of water; but the amount is in two instances, so slightly beyond legal limits that it must be regarded as accidental. The cases in question are:—

	Water.
No. 37312—Ingersoll Packing Co	2·09
" 47376— " "	1·17
" 48472—P. Burns Co	1·14

Two samples sold as lard, contain cotton seed oil, and should have been sold as compound. These are No. 1389 and No. 38242.

All other samples, 262 in number, conform to the requirements of legal lard, and must be regarded as genuine.

It will be observed that many samples judged as genuine, give a distinct reaction with the Halphen test for cotton seed oil. I am convinced that the indications of this test considered by themselves, are not sufficiently positive to furnish a basis for pronouncing cotton seed oil present, with intent. Hogs which have been fed with cotton seed meal may yield a fat which gives the red coloration with Halphen's re-agent. Unless the absorption of iodine confirm the Halphen test, I do not regard the presence of cotton seed oil as established.

The last report upon lard was published as Bulletin 193, in December, 1909. On the whole, this article appears to be of good quality ; and the occasional sale of a compound lard for the genuine is to be regarded rather as an act of carelessness on the part of the retail dealer, than as intentional on the part of the manufacturer. Our inspection shows that manufacturers of compound lard are careful to state correctly the nature of the article on the container.

I beg to recommend the publication of this report as Bulletin No. 237.

I have the honour to be, sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
							DISTRICT OF NOVA SCOTIA—
1911.							
Nov. 8	Lard.....	46741	R. B. Adams & Co., Halifax, N.S.	1 lb..	17	Swift Co., Chicago...	Davis & Fraser, Halifax, N.S.
" 8	"	46742	P. T. Shea, Halifax, N.S.	1 " ..	20	J. Morrell, Ottumwa, U.S.	Mfr .....
" 8	"	46743	G. Hirshfield, Halifax, N.S.	1 " ..	14	Vendor.....	.....
" 8	"	46744	Thos. Spry, Halifax, N.S.	1 " ..	17	"	.....
" 9	"	46745	J. A. Leaman & Co., Halifax, N.S.	1 " ..	18	Vendors.....	.....
" 9	"	46746	A. L. Doyle & Co., Halifax, N.S.	1 " ..	17	"	.....
" 9	"	46747	T. J. Brown, Halifax, N.S	1 " .	18	Swift Co., Chicago...	Wentzells Ltd., Halifax, N.S.
" 9	"	46748	W. C. DeFay, Halifax, N.S.	1 " ..	18	Wm. Davies, Co., Toronto.	Davis & Fraser, Halifax, N.S.
" 9	"	46749	F. S. Short, Halifax, N.S.	1 " ..	18	F.W. Fearman, Hamilton.	Mfr.....
" 10	"	46750	Hy. Cook, Halifax, N.S.	1 " ..	15	Vendor.....	.....
" 10	"	46751	J. H. Emmett, Halifax, N.S.	1 " ..	15	"	.....
" 10	"	46752	J. G. Mitchell, Halifax, N.S.	1 " ..	17	"	.....
" 10	"	46753	J. A. Bremner, Halifax, N.S.	1 " ..	18	Wm. Davies, Co., Toronto, Ont.	R. B. Caldwell, agent, Halifax, N.S.
" 13	"	46754	Davis & Fraser, Halifax, N.S.	1 " ..	14	Vendors.....	.....
" 14	"	46755	O. Lyons, Kentville, N.S.	1 " ..	18	F. W. Fearman, Co., Hamilton, Ont.	Mfrs.....
" 15	"	46756	S. L. Cross, Kentville, N.S.	1 " ..	18	Park Blackwell, Toronto, Ont.	" .....
" 16	"	46757	Dixon Ltd., Halifax, N.S.	1 " ..	17	Wm. Davies, Co., Toronto, Ont.	R. B. Caldwell, agent, Halifax, N.S.
" 16	"	46758	Shore & Campbell, Halifax, N.S.	1 " ..	18	Unknown.....	J. Crowe, Ltd., Halifax, N.S.
" 17	"	46759	S. Thomson, Dartmouth, N.S.	1 " ..	16	F. W. Fearman, Toronto.	Mfrs.. .....
" 17	"	46760	Forsyth, Jr., Dartmouth, N.S.	1 " ..	18	" " ..	" .....
							DISTRICT OF PRINCE EDWARD ISLAND—
Oct. 16	Lard....	46106	John McKenna, Charlottetown, P.E.I.	1 lb..	18	Morris & Co,, Chicago.	.....
" 16	"	46107	R. F. Maddigan & Co., Charlottetown, P.E.I	1 " ..	18	Davis & Fraser, Charlottetown, P.E.I.	.....
" 17	"	46108	S. Sanderson & Co., Charlottetown, P.E.I.	1 " ..	16	Langs, Montreal.....	.....
" 18	"	46109	Stewart & Son, Charlottetown, P.E.I.	1 " ..	16	Morris & Co., Chicago.	.....
21	"	46110	James Kennedy, Kensington, P.E.I.	1 " ..	17	Vendor.....	.....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion.)	Result of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus).	Butyro-Refractometer at 40° C.	Halphen Reaction.		
R. J. WAUGH, INSPECTOR.						
	p.c.					
'Silver Leaf' Brand	0·04	67·96	51·1	None	46741	Genuine.
	0·02	66·39	50·0	Faint Pink	46742	"
	0·03	55·39	50·2		46743	"
Leaf Lard	0·03	55·37	49·6	None	46744	"
	0·10	52·68	49·5	"	46745	"
	0·01	60·76	50·3	Faint Pink	46746	"
'Silver Leaf' Brand	0·03	66·58	51·1		46747	"
Leaf Lard	0·04	62·02	50·4		46748	"
'Star' Brand	0·02	63·00	50·7	None	46749	"
	0·03	56·27	49·5		46750	"
	0·04	55·68	49·8		46751	"
Sold as pure	0·05	60·03	50·0		46752	"
	0·05	59·39	50·1	Faint Pink	46753	"
Labelled pure leaf Lard	0·03	54·21	50·0	None	46754	"
	0·09	55·11	51·3	Faint Pink	46755	"
	0·05	56·36	51·4	"	46756	"
	0·02	58·67	50·1	"	46757	"
	0·02	58·63	50·1	"	46758	"
	0·02	58·75	50·6		46759	"
	0·04	57·63	51·0	"	46760	"
WM. A. WEEKS, INSPECTOR.						
	0·02	58·16	50·0	None	46106	Genuine.
	0·02	57·36	49·5	"	46107	"
	0·04	60·61	50·6	Light pink	46108	"
	0·03	59·83	50·0	None	46109	"
	0·04	51·93	49·8	"	46110	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
						DISTRICT OF PRINCE EDWARD ISLAND—	
1911.							
Oct. 21	Lard.....	46111	R. T. Holman, Ltd., Summerside, P.E.I	1 lb ..	15	Wm. Davis & Son, Toronto.	.. ..
" 21	"	46112	Brace McKay Co., Summerside, P.E.I.	1 " ..	16	Davies Ltd., Montreal.	.....
" 26	"	46113	D. J. McLean, Montague, P.E.I.	1 " ..	16	Jno. Tobin & Co., Halifax.	.....
" 27	"	46114	W. W. Jenkins, Georgetown.	1 " ..	16	The Wm. Davies & Co., Ltd., Toronto.	....
" 31	"	46115	T. Strickland, Charlottetown, P.E.I.	1 " ..	18	Vendor.....	....
						DISTRICT OF NEW BRUNSWICK—	
Oct. 13	Lard.....	45540	John Hopkins, St. John N.B.	1 lb ..	16	Vendor.....	.....
" 14	"	45541	F. E. Williams Co., Ltd., St. John, N.B.	1 " ..	18	Vendors.....	.....
" 18	"	45542	G. B. Taylor, St. John, N.B.	1 " ..	Nil.	Vendor	.....
" 18	"	45543	Slipp & Flewelling, St. John, N.B.	1 " ..	16	Vendors.....	.....
" 18	"	45544	Carpenter & Co., St. John, N.B.	1 " ..	15	D. B. Martin Ltd., West Toronto, Ont.	.....
" 24	"	45545	D. McDade, St. John, N.B.	1 " .	16	Vendor.....	.....
" 24	"	45546	2 Barkers, Ltd., St. John, N.B.	1 " ..	14	The Park Blackwell Co., Ltd., Toronto.	.....
" 24	"	45547	James Collins, St. John, N.B.	1 " ..	18	Gunn's, West Toronto, Ont.	.....
Nov. 3	"	45548	P. F. McKenna, St. Stephen, N.B.	1 " ..	14	Swift Co. Ltd., U.S.A	.....
" 7	"	45549	John McCluskey, Fredericton, N.B.	1 " ..	15	The Wm. Davies Co. Ltd., Montreal.	.....
" 8	"	45550	Imperial Packing Co., Ltd., Woodstock, N.B	1 " ..	15	Vendors	.....
" 8	"	45551	W. S. Skillen, Woodstock, N.B.	1 " ..	16	Gunn's, Ltd., Toronto, Ont.	.....
" 9	"	45552	B. Beveridge, Andover, N.B.	1 " ..	17	"	.....
" 10	"	45553	F. D. Sadler, Perth, N.B.	1 " ..	17	Fowler's Can. Co. Ltd. Hamilton, Ont.	.....
" 14	"	45554	Sussex Packing Co., Ltd., Sussex, N.B.	1 " ..	15	Vendors.....	.....
" 15	"	45555	D. A. McBeath, Moncton, N.B.	1 " ..	17	F. W. Fearman Co., Ltd., Hamilton, Ont.	.....
" 15	"	45556	Wm. P. White, Moncton, N.B.	1 " ..	15	Davis & Fraser, Charlottetown, P.E.I.	.....
" 16	Lard Compound..	45557	D. & J. Ritchie & Co., New Castle, N.B.	1 " ..	15	The N. K. Fairbank's Co., Montreal.	.....
" 17	Lard.....	45558	A. J. Meahan, Bathurst, N.B.	1 " ..	15	Gunn's Ltd., West Toronto, Ont.	.....
" 17	"	45559	W. J. Kent & Co., Ltd. Bathurst, N.B.	1 " ..	15	F. W. Fearman Co , Ltd., Hamilton, Ont.	.....
" 17	"	45580	Adams Burns Co., Ltd. Bathurst, N.B.	1 " ..	15	Laing, P. & P. Co., Montreal.	.....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst
	Water.	Iodine number (Hanus).	Butyro Re. fractometer at 40° C.	Halphen Reaction.		
WM. A. WEEKS, INSPECTOR—*Concluded.*						
	p.c.					
....	0·02	58 42	50 4	None	46111	Genuine.
.. ..	0·01	61 02	50·3	"	46112	"
Swifts	0·02	67·64	51·2	"	46113	"
.....	0·02	58 42	50·2	"	46114	"
....	0·04	52 75	49 1	"	46115	
J. C. FERGUSON, INSPECTOR.						
....	0·04	56 25	49 2	None.	45540	Genuine
.	0 04	56·69	50 0	"	45541	"
	0 04	58 34	49 9	"	45542	"
	0 06	57 28	49 8	"	45543	"
	0 03	61 97	50 8		45544	"
	0 03	56 19	49 3	"	45545	"
	0 09	55 83	51 7	"	45546	"
.	0 09	58 98	50 2	"	45547	"
"Silver Leaf" Brand .	0 04	66 38	51 2	Pink ..	45548	"
	0·04	60 57	50 3	"	45549	"
.	0 17	54 79	49 1	Light Pink	45550	"
.. .	0 04	57 73	50 7	None . .	45551	"
	0·04	60 36	50 5		45552	"
.... . .	0·04	60 48	51 0		45553	"
....	0 03	55 76	49 7		45554	"
"Star" Brand. ..	0 02	61·27	50 9		45555	"
....	0 02	57·55	49 9	"	45556	"
"Boar's Head" Compound.	0·02	95·94	56 7	Red..	45557	Sold as compound.
.. ..	0 03	60·73	50·3	Faint Pink..	45558	Genuine.
....	0·03	62 63	51 0	Light Pink..	45559	"
....	0·05	60 77	50·2	Faint Pink.	45580	"

BULLETIN No. 237.—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
						DISTRICT OF QUEBEC—	
1911.							
Oct. 12	Lard.....	36998	Cantin & Frère, 271 rue St-Joseph, Quebec.	1 lb.	18	Blackwell Co., Toronto.	Unknown.....
" 13	"	36999	G. Gingras, 265 rue du Roi, Quebec.	1 "	20	Mathews, Peterboro.	J. B. Reneaud et Cie.
" 16	"	37000	O. Lacroix, 19 rue St-Joseph, Quebec.	1 "	16	A. Dombrosky.....	Manufacturer.....
" 16	"	37301	J. E. Gregoire, 128 rue du Pont, Quebec.	1 "	15	G. Mathews Co., Hull.	Emond and Côté....
" 17	"	37302	W. Cantin, 133 rue du Pont, Quebec.	1 "	18	Ingersalt Co., Montreal.	J. B. Reneaud et Cie.
" 19	"	37303	A. Pichette, 176 rue D'Orchester, Quebec.	1 "	18	Davis, Toronto.....	"
" 19	"	37304	Louis Jobin, 156 rue D'Orchester, Quebec.	1 "	20	Leon Bertrand.....	Manufacturer.....
" 19	"	37305	J. D. Marier, 136 rue D'Orchester, Quebec.	1 "	16	Gunn's Ltd, Toronto	W. Carrier et Cie...
" 20	"	37306	W. Pampalon, 120 rue D'Orchester, Quebec.	1 "	20	Imperial, Hamilton..	N. Turcot et Cie....
" 20	"	37307	J. F. Goslin, 50 rue D'Orchester, Quebec.	1 "	20	Sylvain & Frere.....	Manufacturers.....
" 20	"	37308	Mad. T. Savard, 16 rue D'Orchester, Quebec.	1 "	20	Mathews.....	J. B. E. Letellier...
" 20	"	37309	Mad. Theodul Dubuc, 135 rue Charest, Que.	1 "	15	"	" ...
" 23	"	37310	A. A. Cantin, 555 rue St. Valier, Quebec.	1 "	18	Follor Cannille, Hamilton.	J. B. Reneaud et Cie.
" 23	"	37311	J. E. Morand, 406 rue St-Valier, Quebec.	1 "	20	"	"
" 23	"	37312	J. E. Emond, Laliberté and St. Helene, Que.	1 "	18	Ingersall Packing Co.	Unknown.....
" 23	" ...	37313	L. Mercier, 118 rue Laliberté, Quebec.	1 "	18	Geo. Mathews & Co., Ltd.	Drouin & Frère.....
" 24	"	37314	Alfred Cloutier, 132 rue Laliberté, Quebec.	1 "	18	Ingersoll, Ont..	J. B. E. Letellier...
" 24	"	37315	Ed. Verreault, 204 rue de la Reine, Quebec.	1 "	18	Fowlers, Hamilton..	Octave Jacques.....
" 24	"	37316	F. X. Goselin, 115 rue de la Couronne, Que.	1 "	16	Mathews, Hull.....	J. B. E. Letellier...
" 24	"	37317	G. H. Turcotte, 92 rue Caron, Quebec.	1 "	17	Emond & Côté . . .	Manufacturers.....
						DISTRICT OF ST. HYACINTHE—	
Oct. 25	Lard.....	1370	A. E. D'Artois & Fils, Farnham.	1 lb.	18	The Harris Abattoirs Co., Ltd., Montreal	.....
" 25	"	1371	Ed. Bienvenu, Farnham.	1 "	16	The Park Blackwell Co., Ltd., Toronto.	.....
" 26	"	1372	W. R. Horner, Granby.	1 "	16	Gunn's Ltd., West Toronto.	.....
" 26	"	1373	W. D. Bradford, Granby.	1 "	15	The Laing P. & P. Co. Ltd., Montreal.	.....
" 26	"	1374	Allan Taylor & Co., Waterloo.	1 "	15	"	.....
" 26	"	1375	Gilmore & Girard, Waterloo.	1 "	15	The Park Blackwell Co., Ltd., Toronto.	.....
" 26	"	1376	Mde a D'Lebeau, Sutton.	1 "	15	.....	Hudon & Orsali, Montreal.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion on the Chief Analyst.
	Water.	Iodine Number (Hanus).	Butyro refractometer at 40°C.	Halphen Reaction.		
F. X. W. E. BELAND, INSPECTOR.						
	p c.					
	0·45	55·95	50·2	None.	36998	Genuine.
	Trace.	57·54	51·5	Faint Pink.	36999	"
	"	56·12	50·5	"	37000	"
	None.	62·04	51·1	"	37301	"
	1·08	51·40	49·8	None.	37302	
	0·11	60·55	50·3	"	37303	
	Trace.	62·87	51·1	"	37304	
	"	58·60	50·2	"	37305	
	"	62·39	50·8	"	37306	"
	0·35	59·22	50·2	"	37307	"
Pure Lard	Trace.	63·38	51·0	"	37308	"
"	"	61·97	50·4	Faint Pink.	37309	"
	"	60·52	50·2	None.	37310	"
	"	63·87	50·6	"	37311	"
	2·09	56·30	50·7	"	37312	Excess water.
	Trace.	60·67	50·3	"	37313	Genuine.
	"	56·91	50·8	"	37314	"
	"	59·28	50·1	Light Pink	37315	"
	"	60·50	50·9	None.	38316	
	"	63·02	50·8	"	37317	"
J. C. ROULEAU, INSPECTOR.						
	0·02	59·32	50·0	Faint Pink..	1370	Genuine.
	0·22	58·02	51·5	None	1371	"
	0·02	64·46	51·0	Faint Pink..	1372	"
	0·04	61·63	50·6	Pink..	1373	"
	0·04	62·38	50·3	Red	1374	"
	0·03	62·00	50·4	None	1375	"
	0·03	58·25	50·0	"	1376	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF ST. HYACINTHE	
1911.							
Nov. 6	Lard	1377	Bray Bros,, Sherbrooke.	3 lbs.	55	The Ingersoll Packing Co., Ltd., Ingersoll, Ont.	
" 6	"	1378	King's Cash Store, Thetford.	¾ "	13	Armour's Packing Co., Chicago.	
" 8	"	1379	C. E. Roy, Megantic.	1 "	15	Fowler's Canadian Co., Ltd., Hamilton	
" 9	"	1380	E. A. McKee, Coaticook.	1 "	15	The Laing P. & P. Co. Ltd., Montreal.	
" 9	"	1381	Meade Bros. & Co., North Coaticook.	1 "	14		D. S. Bachand, Coaticook.
" 11	"	1382	F. W. D. Melloon, Rock Island.	1 "	14	Armour & Co., Chicago.	
" 11	"	1383	J. A. Surprenant, Rock Island.	1 "	13	Vendor.	
" 21	"	1384	J. P. Réne, Nicolet	1 "	15		L. Chaput fils & Cie, Montreal.
" 21	"	1385	A. D. Réne, Nicolet	1 "	14		
" 22	"	1386	L. H. Paquin & Cie, Sorel.	1 "	17	The Whyte Packing Co., Ltd., Stratford.	
" 22	"	1387	J. V. Fagnan, Sorel	1 "	15	The Laing Co., Montreal.	
" 23	"	1388	J. B. St. Pierre, St. Hyacinthe.	1 "	17	Davies, Ltd., Montreal.	
" 23	"	1389	Bazinet & Brodeur	1 "	16	National Packing Provision Co., Quebec.	
						DISTRICT OF MONTREAL—	
Oct. 23	Lard	40941	J. E. Belisle, 129 Wellington St., Montreal	1 lb.	20		
" 23	"	40942	J. Caron, 252 Church St., Verdun, P.Q.	1 "	14	D. B. Martin, Toronto	
" 23	"	40943	" "	1 "	15	Davies Ltd., Montreal	
" 23	"	40944	A. Clarke, 244 Church St., Verdun, P.Q.	1 "	15		Gunn, Langlois & Co., Montreal.
" 23	"	40945	Louis Leblanc, 142 Church St., Verdun, P.Q.	1 "	15		
" 23	"	40946	O. Brunet, 1265 Wellington St., Verdun, P.Q.	1 "	20		
" 23	"	40947	obitaille & Gauthier, 2 Craig West, Montreal.	1 "	18	McDuff Lamb, Montreal.	
" 23	"	40948	P. H. Theoret, 21 Vitre St. E., Montreal.	1 "	20	Laing P. & P. Co., Ltd., Montreal.	
" 23	"	40949	R. Bernard, 91 Laganchetiere E., Montreal	1 "	15		Lunham & Grahan., Montreal.
" 23	"	40950	E. Lionnais, 56 Sanguinet St., Montreal.	1 "	17		
" 24	"	40951	Jos. Fournelle, St. Agathe de Monts, P.Q.	1 "	15	Davies Ltd., Montreal	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus.)	Butyro-Refractometer at 40°C.	Halphen Reaction.		
J. C. ROULEAU, INSPECTOR.—*Concluded.*						
	p. c.					
Pure Lard	0·03	59·31	50·2	Faint Pink..	1377	Genuine
	0·03	66·13	51·0	"	1378	"
Pure Lard	0·01	64·25	50·7	None..	1379	"
Extra Pure Lard	0·07	61·10	50·3	Red	1380	"
	0·01	68·58	51·2	Faint Pink..	1381	"
	0·03	67·83	51·1	Pink..	1382	"
	0·03	59·35	50·1	None...	1383	"
Extra Pure Lard	0·03	59·28	50·0	"	1384	"
"	0·02	59·43	50·0	"	1385	"
	0·02	56·19	49·8	"	1386	"
	0·05	60·03	50·0	Red	1387	"
	0·03	63·50	50·3	None..	1388	"
Pure Lard	0·01	72·88	52·9	Red	1389	Contains cotton seed oil. Adulterated.
J. J. COSTIGAN, INSPECTOR.						
Sold as pure	0·03	59·50	50·2	Red	40941	Genuine.
	0·02	61·14	50·1	None	40942	"
	0·03	59·57	50·0	"		
	0·02	63·50	50·7	Faint pink..	40943	"
Sold as pure	0·01	59·73	50·0	Pink	40944	"
"	0·03	59·46	50·3	Faint pink..	40945	"
"	0·03	59·49	49·9	None...	40946	"
"	0·07	60·18	50·4	Pink....	40947	"
"	0·04	56·41	49·8	None	40948	"
"	0·05	64·25	50·9	Light pink.	40949	"
ure	0·02	62·74	50·5	None...	40950	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by The Vendor. Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1911.							
Oct. 24	Lard.....	40952	E. Masse, St. Agathe de Monts, P.Q.	1 lb ..	15	.....	.....
" 27	"	40953	E. Dufour, Joliette, P.Q.	1 " ..	15	Laing P. & P. Co., Ltd.	.....
" 27	"	40954	O. Chevalier et fils, Joliette, P.Q.	1 " ..	15	Davies Ltd., Montreal	.....
Nov. 3	"	40955	E. W. Farrell, 79 St. Antoine St. West, Montreal.	1 " ..	18	The Geo. Matthews Co., Ltd.	.....
" 3	"	40956	J. A. Reneaud, 622 St. Antoine St. West, Montreal.	1 " ..	15	.....	.....
" 3	"	40957	Davies Ltd., 1640 B St. James St., Montreal.	1 " ..	16	Vendors	.....
" 3	"	40958	A. Pilon, 1681 Notre Dame West, Montreal.	1 " ..	16	.....	.....
" 3	"	40959	P. Lebrun, 1662 Notre Dame West, Montreal.	1 " ..	18	Fowler's Canadian Co., Ltd.	.....
" 3	"	40960	H. Desmarais, 1650 Notre Dame West, Montreal.	1 " ..	15	.....	.....
DISTRICT OF OTTAWA—							
Oct. 10	Lard.....	49011	Peter Speirs & Co., Carleton Place.	1 lb ..	18	The Geo. Matthews Co., Ltd., Hull.	.....
" 10	" ...	49012	Wm. Jenkins, Carleton Place.	1 " ..	16	The Park-Blackwell, Ltd., Toronto.	.....
" 12	"	49013	W. E. Parsons, Arnprior.	1 " ..	15	The Geo. Matthews Co., Ltd., Hull.	.....
" 12	"	49014	T. McCormick, Arnprior.	1 " ..	15	Fowler's Canadian Co., Hamilton.	.....
" 13	"	49015	L. M. Davison, Kemptville.	1 " ..	18	Gilmour & Co., Brockville.	.....
" 16	"	49016	D. J. Dick, Almonte..	1 " ..	15	The Geo. Matthews Co., Ltd., Hull.	.....
" 16	"	49017	Fred W. Robertson, Almonte.	1 " ..	15	Fowler's Canadian Co., Ltd., Hamilton.	.....
" 20	"	49018	Sanders, Soule & Casselman Co., Ltd., Chesterville.	1 " ..	16	The Geo. Matthews Co., Ltd., Hull.	.....
" 20	"	49019	Chester Casselman, Chesterville.	1 " ..	15	The Wm. Davies Co., Toronto.	.....
" 25	"	49020	A. Moreland, Bank st., Ottawa.	1 " ..	18	Gunn's, Ltd., Toronto	Bate & Co., Ottawa.
" 25	"	49051	H. Armstrong, Bank st., Ottawa.	1 " ..	17	Fowler's Can. Co., Ltd., Hamilton.	.....
" 25	"	49052	A. E. Rea & Co., Ottawa	1 " ..	18	Gunn's, Ltd., West Toronto.	.....
" 25	"	49053	The Geo. Matthews Co., Ltd., By Ward Market, Ottawa.	1 " ..	15	Vendors.....	.....
" 25	"	49054	" " ..	1 " ..	17	"	.....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus.)	Butyro Refractometer at 40°C.	Halphen Reaction.		
J. J. COSTIGAN, INSPECTOR—*Concluded.*						
	p.c.					
Sold as pure	0·02	57·44	49·7	None	40952	Genuine
Labelled extra pure lard	0·06	62 12	50·8	Red	40953	"
Labelled pure	0·01	61·51	50·4	None	40954	"
	0·07	59·91	50·0	Red	40955	"
	0·03	58 50	50·1	None	40956	"
	0·03	60·87	50 3	"	40957	"
	0·01	60·00	50·2	"	40958	"
	0·04	60·94	50·1	Light pink.	40959	" "
	0·06	59·57	50·0	None	40960	"
J. A. RICKEY, INSPECTOR.						
	0 04	56·63	49·9	None	49011	Genuine.
Labelled choice family lard; pure lard.	0·93	53·91	50·6	"	49012	"
Matthews pure lard	0 07	63·71	50·9	"	49013	"
Imperial pure lard	0·07	60 85	50·3	"	49014	"
Pure lard	0·07	58·61	50·1	"	49015	"
Buttercup Brand	0·07	63 22	50·5	"	49016	"
Imperial pure lard	0·05	60·18	50·8	"	49017	"
Choice pure lard	0·08	60·97	51·1	"	49018	"
	0·04	59·18	50·2	Faint pink.	49019	"
	0·03	56·50	49·9	"	49020	"
Pure lard. L. & S. Best	0·03	59·13	50 0	None	49051	"
Maple Leaf; pure lard	0·03	58·37	50·2	"	49052	"
Matthews pure lard	0·04	58·92	50·0	"	49053	"
Rose Brand	0 03	56·88	49·9	"	49054	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
						DISTRICT OF OTTAWA—	
1911.							
Oct. 26	Lard.....	49055	Goodall Bros., Ottawa.	3 lbs .	50	D. B. Martin, West Toronto.	.....
" 26	"	49056	A. P. Johnson, Ottawa	1 " ..	18	Jno. Duff & Son, Hamilton.	.....
" 26	"	49057	The Geo. Matthews Co., Ltd., Queen st. West, Ottawa.	1 " ..	15	Vendors.....	.....
" 26	"	49058	Jos. Martel, Hull, P.Q.	1 " ..	15	The Geo. Matthews Ltd., Hull.	.....
" 26	"	49059	P. H. Charron & Co., Hull, P.Q.	1 " ..	15	Jos. O'Mara, Palmerston, Ont.	.....
" 27	"	49060	B. Slattery, Ottawa...	1 " ..	18	D. B. Martin, Ltd., West Toronto.	.....
						DISTRICT OF KINGSTON—	
Nov. 1	Lard.....	48554	W. E. Hopkinson, Kingston.	1 lb..	20	Anderson Bros., Kingston.	.....
" 1	"	48555	Geo. Gibson, Kingston	1 " ..	15	Gunn's Ltd., West Toronto.	.....
" 1	"	48556	L. W. Murphy, Kingston.	1 " ..	15	.....	J. Y. Parkhill, Kingston.
" 1	"	48557	J. Cullen, Kingston...	1 " ..	16	Geo. Matthews, Peterboro.	.....
" 1	"	48558	C. Saunders, Kingston	1 " ..	15	" " ..	.....
" 1	"	48559	C. H. Pickering, Kingston.	1 " ..	15	.....	Geo. Robertson & Son, Kingston.
" 1	"	48560	Anderson Bros., Kingston.	1 " ..	15	Vendors	.....
" 1	"	48561	E. S. Suddard, Kingston.	1 " ..	15	Gunn's Ltd., West Toronto.	.....
" 1	"	48562	D. Couper, Kingston..	1 " ..	15	Geo. Matthews, Peterboro.	.....
" 1	"	48563	Kelley Bros., Kingston	1 " ..	15	" " ..	.....
" 2	"	48564	M. Nolan, Kingston...	1 " ..	15	Freeman, Hamilton..	.....
" 2	"	48565	J. Crawford, Kingston.	1 " ..	17	Geo. Matthews, Peterboro.	.....
" 2	"	48566	D. B. Gage, Kingston.	1 " ..	15	Fowlers, Hamilton...	.....
" 2	"	48567	J. Lemmon, Kingston.	1 " ..	15	Geo. Matthews, Peterboro.	.....
" 2	"	48568	J. A. Donaldson, Kingston.	1 " ..	15	A. Maclean, Kingston	.....
" 2	"	48569	J. T. Morris, Kingston	1 " ..	14	J. Y. Parkhill, Kingston.	.....
" 4	"	48570	G. D. Valleau, Kingston.	1 " ..	16	Gunn's Ltd., West Toronto.	.....
" 4	"	48571	J. McCulla, Kingston.	1 " ..	16	Fowlers, Hamilton...	.....
" 4	"	48572	J. R. B. Gage, Kingston.	1 " ..	15	Gunn's Ltd., West Toronto.	.....
" 4	"	48573	J. Redden, Kingston..	1 " ..	15	Anderson Bros., Kingston.	.....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus).	Butyro Refractometer at 40° C.	Halphen Reaction.		
J. A. RICKEY, INSPECTOR—*Concluded.*						
	p. c.					
....	0·01	60·32	50·1	None. ...	49055	Genuine
Horse Shoe Brand..	0·03	60·75	50·8	"	49056	"
Matthews pure lard.	0·04	60·18	50·2	"	49057	"
Rose Brand	0·01	57·00	49·9	"	49058	"
Pure lard	0·99	57·01	50·6	"	49059	"
.. ..	0·08	59·65	50·1	"	49060	"
JAS. HOGAN, INSPECTOR.						
....	0·03	59·07	50·0	None	48554	Genuine.
....	0·03	60·59	50·5	" . .	48555	"
....	0·05	59·78	50·1	" . .	48556	"
. .. .	0·05	59·50	50·5	"	48557	"
... .	0·01	59·72	50·2	Pink.. ..	48558	"
.. ..	0·04	59·63	50·0	None	48559	"
... .	0·03	59·76	50·0	"	48560	"
. .. .	0·05	58·61	50·0	"	48561	"
....	0·05	59·43	50·2	"	48562	"
. ...	0·04	59·03	50·0	"	48563	
....	0·04	61·23	50·5	"	48564	"
.. ..	0·03	62·63	50·7	"	48565	"
....	0·04	55·89	49·4	Faint Pink..	48566	"
. .. .	0·03	51·00	49·0	None	48567	"
....	0·04	60·23	50·1	"	48568	"
....	0·03	59·15	50·3	Pink.....	48569	"
....	0·02	57·63	50·0	None	48570	"
....	0·03	61·23	50·5	"	48571	"
.. . .	0·03	61·65	50·9	Pink.... ...	48572	"
... .	0·04	58·44	50·2	None	48573	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1911.							
Oct. 24	Lard	47360	C. W. Fox, Owen Sound.	1 lb.	15	Gunn's, Ltd, Toronto	
" 11	"	47365	James Blake, 393 Mary St., Hamilton.	1 "	15	F. W. Fearman Co., Ltd., Hamilton.	
" 16	"	47366	B. Chrysler, Mary St., Hamilton.	1 "	15	Fowler's Can. Co., Hamilton.	
" 18	"	47367	A. E. Cronk, Cannon St., Hamilton.	1 "	14	Jno. Duff & Son, Hamilton.	
" 18	"	47368	A. T. Prosser, 214 Locke St., Hamilton.	1 "	15	Gunn's Ltd., Toronto.	
" 20	"	47369	H. A. Tubb, 337 Parliament St., Toronto.	1 "	17	Puddy Bros., Toronto.	
" 20	"	47370	E. Handley, 268 Spadina St., Toronto.	1 "	16		
" 23	"	47371	F. H. Arkell, Orangeville.	1 "	15	Gunn's Ltd., Toronto.	
" 23	"	47372	T. Durkin & Son, Orangeville.	1 "	15	"	
" 24	"	47373	J. R. Boyd, Owen Sound.	1 "	15	Vendor.	
" 24	"	47374	M. A. Goetz, Owen Sound.	1 "	17	"	
" 24	"	47375	J. McQuaker & Co., Owen Sound.	1 "	15	Whyte Packing Co., Stratford.	
" 26	"	47376	D. Gibbons & Sons, Meaford.	1 "	15	The Ingersoll Packing Co., Ltd., Ingersoll	
" 26	"	47377	Brown Bros., Meaford.	1 "	15	The Collingwood Packing Co., Ltd., Collingwood.	
" 26	"	47378	T. M. McKeown, Collingwood.	1 "	15	Swift Can. Co., Ltd., W. Toronto.	
" 27	"	47379	J. Bingham & Son, Barrie.	1 "	15	Vendors	
Nov. 2	"	47380	W. B. Pringle & Co., Whitby.	1 "	17	The Wm. Davies Co., Ltd., Toronto.	
" 2	"	47381	Mathison Bros. Whitby.	1 "	18	The Geo. Matthews Co., Ltd., Peterboro	
" 2	"	47382	C. H. Crysdale & Son, Oshawa.	1 "	15	Fowlers Can. Co., Ltd., Hamilton.	
" 2	"	47382	Brooks & Armour, Oshawa.	1 "	16	Vendors	
DISTRICT OF WINDSOR—							
Oct. 16.	Lard	47801	M. Vansycle, St. Thomas.	1 lb.	10	St. Thomas Packing Co.	
" 16.	"	47802	A. J. Kadwell, St. Thomas.	1 "	16	Geo. Matthews Co., Brantford.	
" 16.	"	47803	Karstadt & Mahler, St. Thomas.	1 "	18	Tillsonburg Packing Co.	
" 16.	"	47808	St. Thomas Packing Co., St. Thomas.	1 "	nil.	Vendors	
" 16.	"	47812	R. T. Pencombe, St. Thomas.	1 "	16	Fowler's Canadian Co., Hamilton.	
" 17.	"	47816	Orendorf Bros., Ridgetown.	1 "	15	Geo. Matthews Co., Brantford.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion.)	Result of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus).	Butyro Refractometer at 40°C.	Halphen Reaction.		
	p.c.					
H. J. DAGER, INSPECTOR.						
"Maple Leaf" Brand. Pure Lard.	0·04	59·50	50·3	None	47360	Genuine.
	0 03	58·32	50·0	"	47365	"
	0·03	63·75	51 0	"	47366	"
	0·03	61·01	50·4	"	47367	"
	0 04	52·56	49·0	"	47368	"
	0 04	57·91	50 1	"	47369	"
	0 03	55·17	51·2	"	47370	"
"Maple Leaf" Pure Lard	0·04	61·38	50 5	"	47371	"
	0 04	62·24	50·5	Pink	47372	"
	0·13	57 18	49 7	None	47373	"
	0·04	56·08	49·8	"	47374	"
	0 02	60·35	50·4	"	47375	"
"Beaver" Brand	1·17	61 73	50·8	"	47376	Water in excess. Duplicate sample gave 1 52 p.c. moisture.
	0·03	56·97	49·9	Pink	47377	Genuine.
"Silver Leaf" Brand. Guaranteed Pure Lard.	0 04	68·28	51·5	None	47378	"
Leaf Lard	0·03	62·20	51·0	"	47379	"
	0 03	61·97	50·5	"	47380	"
"Rose "Brand	0·04	53·91	49·2	"	47381	"
	0·04	60 49	50·5	Faint pink	47382	"
	0 06	59·95	50·6	None	47383	"
JNO. TALBOT, INSPECTOR.						
Labelled Pure Family Lard	0 05	62 50	50·9	None	47801	Genuine.
	0·03	64·26	51·3	"	47802	"
Labelled London T. P. C. Pure Lard	0 04	60 19	50·4	Faint pink	47803	"
	0·11	59·72	50·3	None	47808	"
Labelled Fowler's Pure Lard, L. & S. Best.	0·04	60·67	50·2	Faint pink	47812	"
Labelled Geo. Matthews' Pure Lard.	0·02	61·72	50·7	None	47816	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of the Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1911.							
Oct. 17.	Lard.....	47823	Clark & Sons, Ridgetown.	1 lb..	15	Geo. Matthews Co., Brantford.	....
" 18.	"	47825	B. C. Watson, Leamington.	1 " ..	15	F. W. Fearman, Hamilton.	....
" 18.	"	47829	B. & W. McIntyre, Leamington.	1 " .	16	Geo. Matthews Co., Brantford.	....
" 18.	"	47834	R. T. Moran, Leamington.	1 " ..	16	F. W. Fearman Co., Hamilton.	.....
" 20.	"	47850	Wm. Rodgers, Chatham.	1¼ lb..	20	Dom. Provision Co., London.	....
" 20.	"	47851	E. R. Snook, Chatham.	1½ " ..	20	F. W. Fearman, Hamilton.	.....
" 20.	"	47852	Jas. Tefft, Chatham...	1 tin..	40	Vendor	....
" 20.	"	47853	M. Taylor, Chatham...	1½ lb..	13	Fowler's Can. Co., Hamilton.	....
" 23.	"	47859	Geo. Jackson, London.	1 lb..	15	Vendor	.....
" 23.	"	47860	T. Hamlyn. London...	1 " ..	15	"	....
" 23.	"	47861	H. A. Schafer, London.	1 " ..	15	Tillson Packing Co., Tillsonburg.	.....
" 23.	"	47862	F. T. Adams, London.	1 " ..	13	Vendor	....
DISTRICT OF MANITOBA—							
Nov. 6	Lard.....	47448	D. Christie, Winnipeg.	1 lb..	15	Wm. Davis & Co., Toronto.	Unknown ....
" 6	"	47449	Robertson & Co., Winnipeg.	1 " ..	20	Western Packing Co., Winnipeg.	....
" 6	"	47450	J. Patterson, Winnipeg	1 " ..	20	Gordon Ironsides, Fares Co., Winnipeg.	....
" 6	"	47451	The W. H. Stone & Co., Winnipeg.	1 " ..	20	Swift Canadian Co., Winnipeg.	Manufacturers. .
" 6	"	47452	M. Brown, Winnipeg..	1 " ..	20	... .	....
" 6	"	47454	F. E. Crone, Winnipeg	1 " ..	20	Swift Canadian Co., Winnipeg.	Unknown ....
" 6	"	47455	F. Fawley, Winnipeg.	1 " ..	20	Gordon Ironsides Fares Co., Winnipeg.	.....
" 6	"	47456	F. H. Menlove, Winnipeg.	1 " ..	20	.....	....
" 7	"	47457	Carson Bros., Norwood Grove, Man.	1 " ..	15	Western Packing Co., Winnipeg.	.....
" 7	"	47458	John Donnelly & Son, Norwood Grove, Man	1 " ..	20	Swift Canadian Co...	....
" 7	"	47459	W. J. Kennedy, Norwood Grove, Man...	1 " ..	20	F. W. Fearman & Co., Hamilton.	.....
" 7	"	47460	W. T. Francis, Norwood Grove, Man...	1 " ..	20	Gordon Ironsides Fares Co., Winnipeg.	....
" 8	"	47461	T. and B. Grocery, Winnipeg.	1 " ..	20	Western Packing Co., Winnipeg.	....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks, and opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus).	Butyro refractometer at 40° C.	Halphen Reaction.		
JNO. TALBOT, INSPECTOR.—*Concluded.*						
	p. c.					
Labelled Family Lard.	0·07	65·52	51·3	None.	47823	Genuine
	0·01	60·71	50·4	"	47825	"
	0·05	61·89	50·6	"	47829	"
Labelled 'Star' Brand Pure Lard.	0·12	59·60	50·6	"	47831	"
	0·09	59·30	50·0	"	47850	"
	0·07	62·61	50·7	Faint pink.	47851	
Labelled Pure Lard	0·03	58·77	49·8	None	47852	
Labelled L. & S. Pure Lard.	0·07	63·25	50·9	"	47853	"
	0·08	60·90	50·3	"	47859	"
	0·09	59·72	50·1	"	47860	
Labelled London's T. P. C. Pure Lard.	0·04	55·40	49·7		47861	
	0·05	60·09	50·1	"	47862	
A. C. LARIVIERE, INSPECTOR.						
	0·03	64·21	51·1	None	47448	Genuine.
	0·11	56·55	51·2	"	47449	"
	0·01	53·50	51·0	"	47450	"
	0·02	67·43	50·3	Faint pink.	47451	
	0·03	62·56	50·6	Light pink.	47452	
	0·02	67·50	51·3	Faint pink.	47454	"
	0·10	53·84	50·8	None	47455	
	0·19	54·92	50·7	"	47456	"
	0·05	57·81	50·9	"	47457	"
	0·03	64·23	50·8	Faint pink.	47458	"
"Star Brand".	0·02	62·05	50·4	Pink	47459	"
	0·03	57·02	49·8	Faint pink.	47460	"
	0·03	60·32	50·0	None	47461	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
							DISTRICT OF MANITOBA—
1911.							
Nov. 8	Lard.....	47462	C. J. Caswell, Winnipeg.	1 lb ..	20	Gallagher, Holdman, Lafrance, Winnipeg	. .. .
" 8	"	47463	W. Rourke & Co., Winnipeg.	1 " ..	20	Armour & Co.....	.....
" 8	"	47464	Walter Fee, Winnipeg.	1 " ..	20	Swift Canadian Co., Winnipeg.	Unknown . ...
" 9	"	47465	H. A. Webb (Elmwood), Winnipeg.	1 " ..	15	Unknown	" ....
" 9	"	47466	Reimer Trading Co., (Elmwood), Winnipeg	1 " ..	20	Swift Canadian Co., Winnipeg.	....
" 9	"	47467	R. Beath & Son (Elmwood), Winnipeg.	1 " ..	18	....	....
" 9	"	47473	Wm. Coates, Winnipeg	1 " ..	18	Gordon, Ironside & Fares, Winnipeg.	....
							DISTRICT OF CALGARY—
Nov. 9	Lard. ...	44021	J. T. Bell & Sons, Medicine Hat.	1 lb.	20	Vendors.....	... .
" 9	"	44022	H. W. Ireland & Co., Medicine Hat.	3 " .	60	Gallagher, Holman, Lafrance Co., Winnipeg.	....
" 9	"	44023	Spencer & Todd, Medicine Hat.	1 " .	25	Swift Canadian Co., Edmonton.	....
" 9	"	44024	L. B. Cochran, Medicine Hat.	1 " .	25	" " ..	....
" 9	"	44025	R. Mitchell, Medicine Hat.	1 " .	20	Vendor	....
" 9	"	44026	LePage Bros., Medicine Hat.	1 " .	25	Swift Canadian Co., Edmonton.	....
" 9	"	44027	Hewitt & Armstrong, Medicine Hat.	1 " .	25	Gallagher, Holman, Lafrance Co., Winnipeg.	....
" 9	"	44028	H. Morrow, Medicine Hat.	1 " .	25	Swift Canadian Co., Edmonton.	....
" 9	"	44029	A. W. Curran, Medicine Hat.	1 " .	25	" " ..	.....
" 9	"	44030	J. T. Bell & Sons, Medicine Hat.	1 " .	25	Vendors.....	....
" 20	"	44031	R. J. Frizzle, Calgary.	1 " .	20	Swift Canadian Co., Winnipeg.	....
" 20	"	44032	C. Bradley, Calgary...	1 " .	20	P. Burns & Co., Calgary.	.....
" 20	"	44033	Sugden & Morse, Calgary.	1 " .	20	Swift Canadian Co., Edmonton.	.....
" 20	"	44034	C. Wrightson & Son, Calgary.	1 " .	20	Dom. Meat Co., Calgary.	....
" 20	"	44035	Jenkins & Co., Calgary.	1 " .	20	Swift Canadian Co., Edmonton.	.....
" 20	"	44036	Summers & Comfoot, Calgary.	1 " .	20	" " ..	.....
" 22	"	44037	P. Burns & Co., Ltd., East Calgary.	1 " .	20	Vendors.	....
" 22	"	44038	Hughes Meat Co., Calgary.	1 " .	20	Swift Canadian Co., Edmonton.	....
" 22	"	44039	Swift Canadian Co., Ltd., Calgary.	1 " .	20	" " ..	.....
" 22	"	44040	The Dom. Meat Co., Ltd., Calgary.	1 " .	20	Vendors.....	.....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine number (Hanus).	Butyro Refractometer at 40°C.	Halphen Reaction.		
A. C. LARIVIERE, INSPECTOR—*Concluded.*						
	p. c.					
.. ..	0·03	58·98	49·9	Faint pink..	47462	Genuine
Armours Shield. Pure Lard.	0·04	67·50	51·2	"	47463	"
....	0·02	67·69	51·4	"	47464	"
....	0·04	57·34	50·1	"	47465	"
....	0·03	64·98	50·7	" ..	47466	"
....	0·03	64·13	50·9	Light pink..	47467	"
. .. .	0·04	56·47	49·7	None.....	47473	"
R. W. FLETCHER, INSPECTOR.						
.....	0·01	61·89	50·3	None.....	44021	Genuine.
.. ..	0·01	62·75	51·1	Faint pink..	44022	"
....	0·04	64·24	51·0	Light pink.	44023	"
....	0·03	65·91	51·1	"	44024	"
.. ..	0·04	62·16	50·5	None	44025	"
... .	0·02	63·25	51·0	Faint pink..	44026	"
.. ..	0·02	62·87	51·0	"	44027	"
.. . .	0·04	65·49	51·1	Pink . .	44028	"
... ...	0·04	66·38	51·0	Light pink..	44029	"
... .	0·03	62·23	50·4	None.....	44030	"
....	0·02	66·24	51·2	Faint pink..	44031	"
....	0·02	63·50	50·5	Pink . .	44032	"
.. . .	0·03	67·71	51·3	Faint pink..	44033	"
....	0·02	62·99	50·5	None.....	44034	"
... .	0·02	64·21	50·7	Light pink..	44035	"
....	0·02	64·22	51·0	Faint pink..	44036	"
....	0·01	63·61	51·0	Red.....	44037	"
... .	0·03	65·85	51·4	None.....	44038	"
....	0·03	63·50	51·0	Faint pink.	44039	"
....	0·03	63·50	50·9	" ..	44040	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NELSON—							
1911.							
Oct. 19	Lard	48436	Trites, Wood Co., Fernie, B.C.	3 lbs.	55	Armour & Co., Chicago.	
" 19	"	48437	"	3 "	55	Swift Can. Co., Edmonton.	
" 19	"	48438	"	3 "	55	P. Burns & Co., Calgary.	
" 27	"	48449	W. R. Braden & Son, Rossland, B.C.	1 pail.	60	Swift Can. Co., Edmonton.	
" 27	"	45454	Union Co-op Assocn., Rossland, B.C.	1 "	65	"	
" 27	"	48461	Hunter Bros., Rossland. B.C.	1 "	90	E. H. Stanton & Co., Spokane.	
" 27	"	48462	"	1 "	60	Swift Can. Co., Edmonton.	
" 27	"	48467	N. Laface, Rossland, B.C.	1 "	60	Armour & Co., Chicago.	
" 27	"	48468	P. Burns & Co., Rossland, B.C.	1 "	60	P. Burns & Co., Calgary.	
" 27	"	48469	"	1 lb.	20	Vendors.	
" 28	"	48470	Union Grocery, Nelson.	1 pail.	55	Armour & Co., Chicago.	
" 28	"	48471	"	1 "	55	G. Matthews Co., Peterboro.	
" 28	"	48472	W. W. Harris, Nelson.	1 "	60	P. Burns & Co., Calgary.	
" 28	"	48473	"	1 "	60	Swift Can. Co., Edmonton.	
" 28	"	48474	"	1 "	90	Armour & Co., Chicago.	
" 28	"	48475	P. Burns & Co., Nelson.	1 "	95	Park, Blackwell Co., Toronto.	
" 28	"	48476	"	1 "	95	Armour & Co., Chicago.	
" 28	"	48477	"	1 "	95	P. Burns & Co., Calgary.	
" 28	"	48478	A. S. Horswill, Nelson.	1 "	55	Swift Can. Co., Edmonton.	
" 28	"	48479	"	1 "	55	Armour & Co., Chicago.	
DISTRICT OF VANCOUVER—							
Oct. 23	Lard	38235	Vancouver-Prince Rupert Meat Co., Vancouver.	1 lb	15	Vendors.	
" 23	"	38236	Andrew Reid, Robson st., Vancouver.	1 "	20	Wm. Davies, Toronto	
" 23	"	38237	W. E. Morrison, Public Market, Vancouver.	1 "	20	Swift & Co., Winnipeg.	
" 23	"	38238	Gray & Co., Granville Market, Vancouver.	1 "	20	P. Burns & Co., Vancouver.	
" 23	"	38239	F. R. Stewart, Water st., Vancouver.	1 "	15	Frye & Co., Seattle, Wash.	

SESSIONAL PAPER No. 14

LARD.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus.)	Butyro Refractometer at 40°C.	Halphen Reaction.		
THOS. PARKER, INSPECTOR.						
	p. c.					
	0·04	68·46	51·6	None	48436	Genuine.
	0·04	65·74	51·5	"	48437	"
	0·05	63·75	50·8	"	48438	"
	1·00	65·98	51·3	Faint Pink..	48449	
	0·06	65·68	51·4	None	48454	
	0·07	64·11	50·9	"	48461	
	0·02	68·17	51·6	"	48462	"
	0·10	65·11	52·2		48467	
	0·04	61·88	50·7	Faint Pink..	48468	
	0·05	58·55	50·1	None.	48469	"
	0·05	66·25	51·1	Faint Pink..	48470	"
	0·04	62·99	50·6	"	48471	"
	1·14	62·88	50·9	"	48472	Excess water. Duplicate sample gave 1·14 p.c. water.
	0·04	67·23	51·1	"	48473	Genuine.
	0·01	69·60	51·6	"	48474	"
	0·13	60·10	51·8	"	48475	"
	0·04	65·33	50·9	None	48476	"
	0·03	63·27	51·0	Pink.....	48477	
	0·04	65·07	51·0	"	48478	"
	0·03	60·46	50·1	None... ..	48479	"
J. F. POWER, INSPECTOR.						
	0·03	60·80	50·5	None.	38235	Genuine.
	0·03	58·52	50·0	"	38236	"
Guaranteed pure lard.... ...	0·02	64·12	51·0	"	38237	"
	0·03	62·75	50·5	Pink..	38238	"
	0·03	65·58	51·1	Faint pink..	38239	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF VANCOUVER—							
1911.							
Oct. 25	Lard.....	38240	Blain's Grocery, Nicola st., Vancouver.	1 lb ..	20	Morrell & Co., Ottumwa, Ia., U.S.A.	.....
" 25	"	38241	W. H. Walsh & Co., Seymour st., Vancouver.	1 " ..	20	P. Burns & Co., Vancouver.	.....
" 25	"	38242	Wm. Crossan, Davie st., Vancouver.	1 " ..	20	.....	.....
" 25	"	38243	J. Atkins, Hamilton st., Vancouver.	1 " ..	20	.....	.....
DISTRICT OF VICTORIA—							
Oct. 25	Lard.	47641	Windsor Grocery Co., Victoria.	1 lb ..	20	Frye, Bruhn & Co., Seattle, Wash.	.....
" 26	"	47642	The West End Grocery Co., Ltd., Victoria.	1 " ..	20	Jno. Morrell & Co., Ottumwa, Ia., U.S.A.	.....
" 26	"	47643	" " ..	1 " ..	20	Swift Can. Co., Ltd., Winnipeg.	.....
Nov. 9	"	47644	Copas & Young, Victoria.	1 " ..	20	Jno. Morrell & Co., Ottumwa, Ia., U.S.A.	.....
" 9	"	47645	Wm. B. Hall, Victoria.	1 " ..	20	Swift Can. Co., Ltd., Winnipeg.	.....
" 13	"	47646	Erskine & Co., Victoria	1 " ..	20	" " ..	.....
" 15	"	47647	D. H. Ross, Victoria..	1½ " ..	30	Frye Bruhn Co., Seattle, Wash.	.....
" 15	"	47648	Harrison & McDonald, Victoria.	1 " ..	20	Jno. Morrell & Co., Ottumwa, Ia., U.S.A.	.....
" 16	"	47649	E. G. Bailey, Victoria.	1 " ..	25	Frye Bruhn Co., Seattle, Wash.	.....
" 16	"	47650	Acton Bros., Victoria.	3 " ..	55	Swift Can. Co., Ltd., Winnipeg.	.....

SESSIONAL PAPER No. 14

LARD.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and opinion of the Chief Analyst.
	Water.	Iodine Number (Hanus).	Butyro Refractometer at 40° C.	Halphen Reaction.		
J. F. POWER, INSPECTOR—*Concluded.*						
	p. c.					
. . . . .	0·03	67·06	51·3	None . . .	38240	Genuine.
. . . . .	0·03	62·48	50·5	Faint pink..	38241	"
. . . . .	0·03	71·33	52·1	Red	38242	Contains cotton seed oil. Adulterated.
Packed by vendor from P. Burns bulk article.	0·02	61·67	50·5	Faint pink..	38243	Genuine.
D. O'SULLIVAN, INSPECTOR.						
'Wild Rose' Brand; pure lard.	0·15	67·16	51·9	Faint pink.	47641	Genuine.
Morrell's warranted pure lard	0·05	65·65	51·6	None. . . .	47642	"
Swift's 'Silver Leaf' Brand pure lard.	0·06	65·75	51·5	. . . .	47643	"
. . . . .	0·03	65·56	51·3	" . . .	47644	"
. . . .	0·05	63·62	51·0	Faint pink.	47645	"
Swift's pure lard	0·04	64·46	51·2	" . .	47646	"
Wild Rose brand pure lard	0·04	65·12	51·0	" . .	47647	"
Morrell's warranted pure lard	0·02	66·11	51·5	. . .	47648	.
'Wild Rose' brand pure lard	0·03	68·16	51·4	Light pink.	47649	"
. . . . .	0·04	63·37	51·2	None . .	47650	"

SUPPLEMENT TO BULLETIN No. 227 FERTILIZERS 1911

CORRECTIONS.

Bulletin No. 227, page 11, sample No. 36942. This sample is found to contain 20·1 per cent. of phosphoric acid. It is identical with sample No. 46637 on page 5 of the same Bulletin, and the percentage of phosphoric acid there given as 12·25 should read 20·1—Sample 46637 is therefore up to its guarantee in phosphoric acid. The mistake was due to confusion of a license number with a registration number, by the Analyst.

APPENDIX B.

BULLETIN No. 238—BUTTER.

OTTAWA, May 14, 1912.

WM. HIMSWORTH, Esq.,
Assistant Deputy Minister of Inland Revenue.

SIR,—I beg to report upon a collection of 157 samples of butter purchased by our inspectors during February and March of this year.

An official standard for butter is established by an Order-in-Council of November 3, 1910, as follows :—

(G. 934).

Butter Fat, is the fat of milk, and has a Reichert-Meissl number not less than 24 and a specific gravity not less than 0. 905 $\frac{(40^\circ\ C).}{(40^\circ\ C)}$

Butter is the clean non-rancid product made by gathering in any manner the fat of fresh or ripened milk or cream into a mass, which also contains a small portion of the other milk constituents, with or without salt, and contains not less than 82·5 per cent milk fat and not more than 16 per cent of water. Butter may also contain added colouring matter of harmless character.

The value of butter inheres in the amount and the quality of the fat contained in it. Legal butter must not contain more than 17·5 per cent of other substances than milk fat. These substances are essentially water, salt and curd. It is evident that by increasing the water content of butter, the purchaser may be defrauded, and for this reason a specific maximum for water is fixed by law. This maximum (16 per cent) is evidently much higher than necessary, and the following synopsis of water content actually found in the 157 samples now reported is instructive :—

Less than	1	per cent water in	5	samples.
"	2	"	6	"
"	10	"	112	"
Above	10	"	33	"
"	16	"	1	"
	Total		157	"

It is by the introduction of water, rather than by an excess of salt, that the producer can increase the weight of his product, since modern taste objects to the presence of more than 3 or 4 per cent of salt. This is seen in the following resume of the present collection :—

Salt below	1	per cent in	7	samples.
"	from 1 to 2	"	50	"
"	" 2 to 3	"	51	"
"	" 3 to 4	"	28	"
"	" 4 to 5	"	13	"
"	" 5 to 6	"	5	"
"	" 6 to 7	"	2	"
"	above 7	"	1	"
	Total.		157	"

Where a butter contains 3 per cent of salt, it is evident that not more than 14·5 per cent of water can be present, if the butter is legal butter; that is if it contains 82·5 per cent of milk fat, as required by law. It would appear from the above record of water content, that this allowance is ample; and indeed the best butters contain much less than 14·5 per cent of water.

The following statement is instructive as showing that the best butter making provinces furnish a butter with comparatively low water content.

10 samples of butter from	Nova Scotia,	average	8·38	per cent water.
10	"	Pr. Ed. Island	" 3 93	"
10	"	New Brunswick	" 5 66	"
10	"	Quebec	" 6·31	"
10	"	St. Hyacinthe	" 7·82	"
10	"	Montreal	" 8 23	"
10	"	Ottawa	" 5·13	"
10	"	Kingston	" 6·70	"
10	"	Toronto	" 6·14	"
8	"	London	" 6·14	"
9	"	Windsor	" 6·40	"
10	"	Manitoba	" 11·01	"
10	"	Calgary	" 11·36	"
10	"	Nelson	" 7·66	"
10	"	Vancouver	" 8 25	"
10	"	Victoria	" 9·73	"

This showing becomes more emphatic when considered in relation to the average price of butter in the different provinces.

Province.	Number Samples.	Average Price.	Average Water Content.
		cts.	
Nova Scotia	10	30·7	8·38
Prince Edward Island	10	29·5	3·93
New Brunswick	10	32·4	5·66
Quebec	30	37·1	7·46
Ontario	47	35·3	6 09
Manitoba	10	42·5	11·01
Alberta	10	44 0	11·36
British Columbia	30	41·2	8 55

It appears from the above, that the price of butter of good quality, varies from 29·5 cents per pound in Prince Edward Island, where it is cheapest, to 44·0 cents per pound in Alberta, where the ruling price is highest. But if we consider the cost of the essential component of butter, namely the milk fat, the difference in price at these two extremes is much greater. Alberta butter averages 2·35 per cent of salt; Prince Edward butter averages 3·01 per cent. So that while 29·5 cents pays for 93·06 per cent butter fat in Prince Edward Island, 44·0 cents pays for only 86·29 per cent butter fat in Alberta. While the nominal difference in price per pound is expressed by the ratio 1 to 1·49 the real difference in cost for the butter fat is 1 to 1·608.

Judging not alone by the present examination, but as the result of analyses recorded in Bulletins No. 219 (211 samples), No. 170 (295 samples), No. 131 (101 samples), &c., I am convinced that the legal maximum of 16 per cent for water in butter is unnecessarily large; and permits of the placing on the market of butter varying too greatly in actual value, to the disadvantage of the consumer and of the butter maker who is careful to avoid the retention of unnecessarily large amounts of water in his product.

The following tabulation of fat content gives more direct information regarding the milk-fat values of these butters :—

Below 82·5 per cent fat (legal minimum).			4 samples.
82·5 to 85 per cent.			13 "
85 to 86	"		6 "
86 to 87	"		12 "
87 to 88	"		12 "
88 to 89	"		12 "
89 to 90	"		15 "
90 to 91	"		11 "
91 to 92	"		29 "
92 to 93	"		15 "
93 to 94	"		6 "
94 to 95	"		7 "
95 to 96	"		9 "
96 to 97	"		3 "
Above 97	"		3 "
	Total		157 "

Four samples are adulterated, as having less than the legal minimum fat.

The fat is found to be genuine milk fat in every case. In one or two samples it exhibits somewhat exceptional character, but not such as to justify any suspicion of being of foreign origin.

Boracic acid is present in ten (10) samples. This does not constitute legal adulteration, under present regula ions. The question of allowing preservatives in butter is under investigation. British law p rmits boracic acid up to one tenth of one per cent.

I beg to recommend the publication of this report as Bulletin No. 238.

I have the honour to be, sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1912.							
Feb. 23	Table Butter....	47041	Yerxas, Kentville, N.S.	1 lb ..	25	Unknown.....	Unknown .....
" 26	"	47042	J. E. Sanford, Halifax, N. S.	1 " ..	35	Acadia Creamery Co. Kingston, N.S.	Mfrs.....
" 29	"	47043	Ziwicker & Co., Lunenburg, N.S.	1 " ..	26	Unknown.....	J. F. Turner, Northfield, N.S
" 29	"	47044	J. S. Berringer, Lunenburg, N.S.	1 " ..	25	"	R. Brahum, Blockhouse, N.S.
" 29	"	47045	B. G. Oxner, Lunenburg, N.S.	1 " ..	25	"	H. A. Mader, Barss Corner, N.S.
Mar 4	"	47046	Smith & Proctor, Halifax, N.S.	1 " ..	36	Crapaud Creamery Co., Crapaud, P.E.I	Mfrs .....
" 4	"	47047	Rooney & Lovett, Halifax, N.S.	1 " .	35	Lawrencetown Creamery Co., Lawrencetown, N.S.	" .....
" 4	"	47048	P. T. Shea, Halifax, N.S.	1 " ..	35	Bass River Mfg. Co., Bass River, N.S.	" .....
" 5	"	47049	Truro Market Ltd., Truro, N.S.	" ..	30	Geo. Chaplin, Middle Stewackie, N.S.	" .....
" 6	"	47050	S. Thomson, Dartmouth, N.S.	1 " ..	35	Unknown.....	Bank & Williams Halifax, N S.
DISTRICT OF PRINCE EDWARD ISLAND—							
Feb. 19	Table Butter....	46146	Beer & Goff, Charlottetown, P.E.I.	1 lb	34	Dunstaffnage Butter Co., Dunstaffnage, P.E.I.	.....
" 15	"	46147	Brace & McKay Co., Ltd., Summerside, P.E.I.	1 " ..	25	F. Treholm, Muddy Creek, P. E. I.	.....
" 15	"	46148	"	1 " ..	30	Central Creamery Lot 16, P. E. I.	.....
" 16	"	46149	R. T. Holman, Ltd., Summerside, P.E.I.	1 " ..	30	Co-operative Central Creamery, Summerside, P. E. I.	.....
" 16	"	46150	Sinclair & Stewart, Summerside, P.E.I	1 " ..	25	Unknown	.....
" 19	" ...	46151	Sanderson & Co., Char'town. P.E I.	1 " .	27	"	Sinclair & Stewart, Summerside, P.E.I.
" 21	"	46152	Sterns Bros., Souris, P.E.I.	1 " ..	30	.....	.....
" 21	"	46153	Mathew & McLean, Ltd., Souris, P.E.I.	1 " .	32	Lakeville Dairying Co., Kings Co., P.E I.	.....
" 21	"	46154	J. J. Hughes & Co., Souris, P. E. I.	1 " .	30	Unknown.....	.....
" 21	"	46155	Sterns Son & Co., Souris, P. E. I.	1 " ..	32	East Point Dairying Asso'cn, Kings Co., P.E.I.	.....

SESSIONAL PAPER No. 14

TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Water.	Salt.	Butyro-refractometer reading at 40° C.	Dry saltless Butter.	Boric acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.							
	p. c.	p. c.		p. c.			
Local Farmer's Butter...	9·82	2·50	41·1	87·70	None.	47041	Genuine.
Dairy.....	9·16	4·54	42·1	86·30	"	47042	"
....	8·04	1·80	42·1	87·16	"	47043	"
... .	8·32	5·90	43·2	85·78	"	47044	"
....	5·74	2·96	42·6	91·30	"	47045	"
..... .	7·68	1·84	42·3	90·48	"	47046	"
. . . .	9·04	3·74	42·5	87·22	"	47047	"
	8·68	2·14	42·6	89·18	"	47048	"
.	7·82	2·94	42·1	89·24	"	47049	"
Dairy. .	9·54	4·20	41·8	86·26	"	47050	"
WM. A. WEEKS, INSPECTOR.							
.. . . .	2·82	1·60	42·0	95·58	None.	46146	Genuine.
. .. .	5·24	2·60	43·7	92·16	"	46147	"
..	6·60	0·70	42·8	92·70	"	46148	"
... ...	0·60	3·26	42·8	96·14	"	46149	"
	7·80	1·26	42·4	87·94	"	46150	"
Tub Butter	0·60	1·80	43·0	97·60	"	46151	"
.. ..	3·82	5·80	41·6	90·40	"	46152	"
... .	1·44	3·60	42·8	94·96	"	46153	"
. ...	3·24	5·34	43·4	91·42	"	46154	"
.. ..	7·18	1·10	42·8	91·72	"	46155	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1912.							
Feb. 7	Table Butter.	45591	M. E. Grass, St. John, N.B.	1 lb.	37	Standard Creamery, St. John, N.B.	.....
" 7	"	45592	W. Fenwick, St. John, N.B.	1 "	32	Thos. A. Goggin, Albert Co., N.B.	.....
" 15	"	45593	Harry G. McBeath, St. John, N.B.	1 "	36	Maritime Dairy Co., Sussex, N.B.	.....
" 15	"	45594	H. S. Francis, St. John, N.B.	1 "	34	Jno. E. McAuley, Lower Mill Stream, Kings Co., N.B.	.....
" 27	"	45595	Jos. W. Robinson, St. Stephen, N.B.	1 "	30	T. L. Boyd, St. David's Parish, Charlotte Co., N.B.	.....
Mar. 5	"	45596	M. E. Doohan, Fredericton, N.B.	1 "	30	Unknown	.....
" 6	"	45597	C. B. Snow, Woodstock, N.B.	1 "	28	.....	Philip Isaacson, Woodstock, N.B.
" 8	"	45598	J. W. McPhail, Perth, N.B.	1 "	30	Unknown	Unknown .....
" 12	"	45599	Sussex Mercantile Co., Ltd., Sussex, N.B.	1 "	37	Maritime Dairy Co., Ltd., Sussex, N.B.	.....
" 13	"	45600	Mrs. P. White, Moncton, N.B.	1 "	30	.....	David Steeves, Moncton, N.B.
DISTRICT OF QUEBEC—							
Feb. 6	Table Butter.	37348	Arthur Rinfret, 414 Rue St. Joseph, Quebec.	1 lb.	36	Unknown	Dom. Fish Co.
" 7	"	37349	Arthur Drolet, 714 Rue St. Valier, Quebec.	1 "	35	Beurrerie Encienne, Lorrette.	Mfr .....
" 7	"	37350	" "	1 "	35	Unknown	Charle Damrais, St. Roch des Aulu's.
" 8	"	37351	O. Lacroix, 19 Rue St. Joseph, Quebec.	1 "	35	"	P. A. Caron, Village des Aulu's.
" 8	"	37352	" "	1 "	35	" "	"
" 8	"	37353	" "	1 "	32	" "	Emond & Cote.
" 9	"	37354	Hamel & Bedard, 728 Rue St. Valier, Quebec.	1 "	35	Beurrerie St. Augustin.	Mfr.
" 12	"	37355	Cantin & Frere, 291 Rue St. Joseph, Quebec.	1 "	35	Unknown	J. B. Renaud & Cie.
" 12	"	37356	" "	1 "	35	" "	Unknown .....
" 12	"	37357	" "	1 "	35	" "	" .....

SESSIONAL PAPER No. 14

TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and opinion of the Chief Analyst.
	Water.	Salt.	Butyro-refractometer reading at 40° C.	Dry Saltless Butter.	Boric acid.		
J. C. FERGUSON, INSPECTOR.							
	p. c.	p. c.		p. c.			
Creamery	6·42	1·94	41·8	91·64	None.	45591	Genuine.
Country prints	1·88	1·26	41·3	96·86	"	45592	"
	6·34	1·46	43·3	92·20	"	45593	
Dairy	7·08	1·50	43·0	91·42	"	45594	
	6·70	2·08	42·5	91·22	"	45595	"
Country prints	5·58	4·00	42·1	90·42	"	45596	
	8·96	6·40	44·0	84·64	"	45597	"
	2·78	1·66	43·2	95·56	"	45598	
	1·66	2·74	43·0	92·60	"	45599	"
Country prints	6·24	4·10	41·7	89·66	"	45600	
F. X. W. E. BELAND, INSPECTOR.							
	8·86	2·80	44·0	88·44	None	37348	Genuine.
	5·80	4·00	43·8	90·20	"	37349	"
	9·88	2·00	43·3	88·12	"	37350	"
	9·56	1·80	42·6	88·64	"	37351	"
	5·64	2·20	43·0	92·16	"	37352	"
	8·86	6·86	43·8	84·28	"	37353	"
	4·64	3·80	43·9	91·56	"	37354	"
	7·94	2·08	44·1	89·98	"	37355	"
	1·44	4·26	43·0	94·30	"	37356	"
	0·76	2·04	41·9	97·20	"	37357	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.		Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF ST. HYACINTHE—					
1912.								
Feb. 19	Table Butter....	39012	R. Bernard, Farnham.	1	lb.	38	Unknown.....	.....
" 20	"	39013	H. Huot, St. Jean...	1	"	38	Gunn's Creamery...	Gunn, Langlois & Co., Montreal.
" 20	"	39014	F. Gironx, St. Jean..	1	"	40	Morin Bros., Sabervais.	.....
" 21	"	39015	F. X. Gagnon, Magog.	1	"	40	.....	Mathews, Ltd., Montreal.
" 22	"	39016	A. Baillargeon, Sherbrooke.	1	"	35	.....	C. McKenzie, Sherbrooke.
Mar. 6	"	39017	Hubert & Jobin, Waterloo.	1	"	38	H. True, Frost Village.	.....
" 6	"	39018	E. A. Westover, Knowlton.	1	"	38	Mr. Dussault, Knowlton.	.....
" 12	"	39019	N. Dufault, Sorel ...	1	"	38	Gunn's Creamery...	Gunn, Langlois & Co., Montreal.
" 19	"	39020	F. Baril, Warwick...	1	"	35	Jos. Birrette, Warwick.	.....
" 25	"	39021	Alb. Brodeur, St. Hyacinthe.	1	"	40	A. Casavanet, St. Dominique.	.....
			DISTRICT OF MONTREAL—					
Feb. 20	Table Butter....	40801	G. H. Falle, St. Antoine Market, Montreal.	1	lb.	37	Eastern Township Creamery.	.....
" 20	" ...	40802	A. Benoit, St. Antoine Market, Montreal.	1	"	35	.....	.....
" 20	"	40803	" ..	1	"	37	.....	Gunn, Langlois & Co., Ltd.
" 20	" ...	40804	J. R. Lefebvre, 246 St. Antoine St., Montreal.	1	"	37	.....	.....
" 20	"	40805	E. E. Wallace, 100 Stanley St., Montreal.	1	"	38	.....	.....
" 20	" ..	40806	Willisson Bros., 20 Prince Arthur West, Montreal.	1	"	40	Wm. Carson, Springdale Creamery.	.....
" 20	" ...	40807	S. L. Mathawson & Son, 18 Ontario st. East, Montreal.	1	"	40	.....	E. E. Wallace..
" 20	"	40898	L. Beauvais, 206 Demontigny, st. West, Montreal.	1	"	38	.....	Gunn, Langlois & Co., Ltd.
" 20	" ...	40809	L. Frankel, 80 Demontigny st., West, Montreal.	1	"	40	.....	.....
" 20	" ..	40810	" ..	1	"	38	.....	.....

SESSIONAL PAPER No. 14

TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.						Remarks and Opinions of the Chief Analyst.
	Water.	Salt.	Butyrometer (Leffmann-Beam) reading at 40° C.	Dry Salt-free Butter.	Boric acid	No. of Sample.	
J. C. ROULEAU, INSPECTOR.	p. c.	p. c.		p. c.			
	9 78	3 64	41 9	86 62	None	39012	Genuine.
	4 72	2 06	43 4	93 22		39013	"
	5 44	2 72	42 5	91 84		39014	"
	5 56	0 94	43 9	93 70		39015	"
	7 70	4 56	44 2	87 74		39016	"
	10 82	3 30	43 5	85 88		39017	"
	7 84	2 70	43 0	89 46		39018	"
	8 58	3 06	44 0	88 56		39019	"
	9 28	2 70	42 9	88 02		39020	"
	8 64	2 84	44 3	86 52		39021	"
J. J. COSTIGAN, INSPECTOR.							
Falle's Special	8 04	2 16	41 2	89 80	None	40801	Genuine.
	10 24	1 67	44 0	88 09		40802	"
	11 60	2 20	43 5	87 20		40803	"
	6 36	2 40	44 0	91 24		40804	"
	6 06	2 60	44 3	91 34		40805	"
	7 76	3 08	42 9	89 16		40806	"
	7 70	1 22	44 2	91 08		40807	"
	5 28	2 16	43 9	92 56		40808	"
	10 82	0 20	45 0	88 92	[1]Present	40809	"
Labelled Central Dairy Co.	9 42	0 20	43·3	90·48	None.	40810	"

[1] Reichert Meissl Number 28·3.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF OTTAWA—				
1912.							
Feb. 2	Table Butter....	50111	The Civil Service Co-op. Supply Asso'cn., Ottawa.	1 lb ..	35	Unknown	Moyneur, Ottawa.
" 2	"	50112	J. Bambrick, Ottawa.	1 " ..	35	A. Trudel & Bro., William St., Montreal.	....
" 2	" ...	50113	Wall & Co., " .	1 " ..	35	Unknown	Moyneur, Ottawa.
" 2	"	50114	S. Diamond, By Ward Market, Ottawa.	1 " ..	33	"	Unknown .. ..
" 2	"	50115	A. E. Rea & Co., Ltd., Ottawa.	1 " ..	33	"	Moyneur, Ottawa.
" 5	" ...	50116	H. H. Layng, Smith's Falls.	1 " ..	32	"	Anderson & Langstaff, Kempville.
" 7	"	50117	T. R. Dunkin, Cornwall.	1 " ..	40	"	James Alexander, Ltd., Montreal.
" 9	"	50118	P. A. Huot & Son, Alexandria.	1 " ..	33	"	Unknown. .....
" 13	"	50119	Stewarts Ltd., Renfrew.	1 " ..	30	"	Mrs. Ferguson, Admaston.
" 19	"	50120	Jos. P. Valiquette, Dalhousie St., Ottawa.	1 " .	38	"	Moyneur, Ottawa.
			DISTRICT OF KINGSTON—				
Feb. 5	Table Butter....	49511	Wm. J. Arnil, Kingston.	1 lb ..	38	Eastern Dairy School, Kingston.	.....
" 6	"	49512	Wm. Davies, Kingston.	1 " ..	38	Maple Leaf Standard Dairy.	....
" 7	"	49513	H. E. Fairfield, Belleville.	1 " ..	40	G. A. Gillespie, Peterboro'.	....
" 7	"	49514	Thompson Bros., Belleville.	1 " ..	38	Cold Spring, Toronto.	....
" 7	"	49515	C. Hilton, Belleville	1 " ..	38	Jersey Lily Dairy...	.....
" 7	"	49516	Geo. Pearson, Belleville.	1 " ..	40	E. B. Mallory, Frankford.	....
" 8	"	49517	J. H. Heal, Peterboro'.	1 " ..	38	Central Smith Dairy Co.	....
" 8	"	49518	J. E. Lillico, Peterboro'.	1 " ..	38	S. A. Sourhworth, Omemee Creamery	....
" 8	"	49519	H. Bradshaw, Peterboro'.	1 " ..	38	G. A. Gillespie, Peterboro'.	.....
" 8	" ...	49520	A. Pearson, Peterboro'.	1 " ..	38	Unknown	.....

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TABLE BUTTER.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro refractometer reading at 40° C.	Dry saltless Butter.	Boric acid.		
J. A. RICKEY, INSPECTOR.							
	p. c.	p. c.		p. c.			
Dairy	1·58	7·16	43·1	91·26	None.	50111	Genuine.
Creamery	12·56	2·36	44·2	85·08	"	50112	"
Dairy	11·06	3·20	43·2	85·64	"	50113	"
"	5·92	3·50	42·2	90·58	"	50114	"
"	4·94	3·06	43·8	92·00	"	50115	"
"	1·16	2·14	44·2	86·70	"	50116	"
Maple Leaf Creamery	2·36	1·70	43·5	96·94	"	50117	
Dairy	5·16	4·78	44·0	90·06	"	50118	
"	0·74	5·36	43·2	94·90	"	50119	
Creamery	5·80	1·50	44·2	92·70	"	50120	
JAS. HOGAN, INSPECTOR.							
	7·98	1·88	42·9	91·14	None.	49511	Genuine.
	13·70	1·40	43·8	84·90	"	49512	"
	10·04	3·80	43·3	86·16	"	49513	"
	3·80	1·50	44·0	94·70	"	49514	"
	9·08	3·34	42·7	87·68	"	49515	"
	3·26	3·56	42·8	92·18	"	49516	"
	7·04	1·60	42·5	91·36	Present.	49517	"
	3·16	3·18	44·8	93·66	None.[1]	49518	"
	4·42	2·06	44·1	93·58	"	49519	"
	4·52	2·86	43·3	92·62	"	49520	"

[1] Reichert Meissl number 29·2.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quality.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1912.							
Feb. 7	Table Butter....	49327	The Duff-Jones Co., Ltd., 216 York St., St., Hamilton.	1 lb.	35	.....	Farmers.....
" 7	"	49328	A. J. Lambert, 17 Market Hall, Ha- Hamilton.	1 "	32	....	Geo. Detweiller, Cargill.
" 14	"	49329	The Wm. Davies Co., Ltd.,1291 Bloor St., St., Toronto.	1 "	38	Vendors.....	....
" 19	" ...	49330	TheFerguson Produce Co., Shelburne, Ont	1 "	32	....	Wm. Shields, Shelburne, Ont.
" 20	"	49331	McDougal & Evans, Ltd., Owen Sound.	1 "	35	....	.....
" 20	"	49332	Dan. McClean, Owen Sound.	1 "	37	....	Farmers.....
" 21	"	49333	C. T. Enright, Collingwood.	1 "	25	....	" .....
" 29	"	49334	England & Sons, 758 BathurstSt.,Toronto	1 "	33	Vendors	....
Mch. 1	" ...	49335	J. McCuaig, Egglington, Ont.	1 "	38	....	E. Brown, Victoria Square.
" 2	"	49336	Doige Produce Co., 117 Carleton St., Toronto.	1 "	40	....	D. C. Ross, Brussels, Ont.
DISTRICT OF LONDON—							
Feb. 19	Table Butter....	47881	Jones & May, Exeter	1 lb.	31	Unknown	Unknown .....
" 20	"	47894	Beacom & Smyth, Clinton.	1 "	30	"	" .....
" 20	" ...	47899	Cantelon Bros., Clinton.	1 "	32	"	" .....
" 20	" ...	48201	H. Wiltse, Clinton...	1 "	30	A. Innis, Stanley Tp.	.....
" 21	"	48211	Cardno Bros., Seaforth.	1 "	32	Unknown	Unknown .....
" 21	" . .	48212	T. S. Blues, Seaforth.	1 "	30	Mrs. Kirton..,.....	.....
" 22	"	48219	KnechtelGrocery Co., Stratford.	1 "	33	Unknown	Unknown ... ..
" 24	"	48226	A. Beattie & Co., St. Marys.	1 "	38	St. Marys Creamery Co., St. Marys.	....

SESSIONAL PAPER No. 14

TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro refractometer reading at 40°C.	Dry Saltless Butter.	Boric acid.		
H. J. DAGER, INSPECTOR.							
	p.c.	p.c.		p.c.			
....	1·92	1·80	42·7	93·28	None.	49327	Genuine.
....	2·20	2·30	42·9	95·50	"	49328	"
Woodside Creamery ...	8·52	1·80	43·3	89·68	Present.	49329	"
... ...	3·51	3·56	43·6	92·90	None.	49330	"
	1·84	3·25	42·8	94·91	"	49331	
.. ..	10·84	1·52	42·7	87·64	"	49332	"
. .... .	2·28	3·42	46·2	94·30	" [1]	49333	Probably genuine, but fat of exceptional character.
.. ..	10·76	1·96	43·1	87·28	"	49334	Genuine.
... .	7·84	3·80	41·8	88·36	"	49335	"
....	8·62	2·92	42·9	88·46	"	49336	"
JNO. TALBOT, ACTING INSPECTOR.							
....	7·28	2·58	43·0	91·11	None.	47881	Genuine.
....	3·12	1·66	42·8	95·22	"	47891	"
....	6·30	2·70	43·0	91·00	"	47899	"
....	9·16	4·40	42·5	86·34	"	48201	"
....	5·52	3·58	42·5	91·90	"	48211	"
....	6·58	2·20	43·0	91·22	"	48212	"
....	4·60	0·70	43·0	94·70	"	48219	"
... ...	6·60	2·20	42·5	91·20	"	48226	"

[1] Reichert Meissl number 24·9.
Polenske 3·0.
Iodine 45·0.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1912.							
Feb. 13	Table Butter...	47876	Jas. Noble, Strathroy	1 lb..	32	Miss Mcfntyre, Adelaide.	... .
" 13	" ...	47878	Wm. Cross, Strathroy	1 " ..	32	Unknown	Unknown .....
" 6	" ...	48077	A. J. Clark & Co., London.	1 " ..	40	Kerwood Creamery Co., Kerwood.	.. . .
" 7	" ...	48081	E. S. English, London	1 " ..	40	"	....
" 7	" ..	48084	Wm. Hayes, London.	1 " ..	35	....	Mrs. Ardell.....
" 7	" ...	48088	S. H. Wilson, London East.	1 " ..	38	Medway Creamery..	... .
" 8	" ...	48091	Mrs. F. Boug, London West.	1 " ..	36	Maple Leaf Creamery	....
" 8	" ...	48093	R. W. Jones, London West.	1 " ..	36	Mrs. Scott....	....
" 8	" "..	48094	J. A. Glin, London West.	1 " ..	40	Medway Creamery, Arva, Ont.	... .
DISTRICT OF MANITOBA—							
Mar. 13	Table Butter...	47479	C. H. Hoffman & Son, grocers, Winnipeg.	1 lb..	45	Crescent Creamery Co., Winnipeg.	Manufacturers..
" 13	" ...	47480	"	1 " ..	45	Swift & Co., Winnipeg.	" ..
" 13	" ...	47481	W. R. Straefer, grocer, Winnipeg.	1 " ..	35	Unknown.....	Rosen Salamon, Jarvis Ave., Winnipeg.
" 13	" ...	47482	D. A. Ritchie, grocer, Winnipeg.	1 " ..	40	"	The Simpson Produce Co., Winnipeg.
" 14	" ..	47483	D. G. Macdonald, Portage La Prairie.	1 " ..	40	The Ideal Creamery Co., Portage La Prairie.	Manufacturers..
" 15	" ..	47484	G. T. Grant & Co., grocers, Winnipeg.	1 " ..	45	The Carson Hygienic Dairy Co., Winnipeg.	" ..
" 15	" ...	47485	"	1 " ..	45	The Crescent Creamery Co., Winnipeg.	" .
" 15	" ...	47486	Hicks & Gillespie, grocers, Winnipeg.	1 " ..	45	The Carson Hygienic Dairy Co., Winnipeg.	" ..
" 19	" ...	47487	Alex. Reid, grocer, Brandon.	1 " ..	45	The Brandon Creamery & Supply Co., Brandon.	" ..
" 19	" ..	47488	A. M. Percival, grocer, Brandon.	1 " ..	40	"	" ..

SESSIONAL PAPER No. 14

TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.						Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro-refractometer reading at 40°C.	Dry Saltless Butter.	Boric Acid.	No. of Sample.	
JNO. TALBOT, INSPECTOR.							
	p.c.	p.c.		p.c.			
	3·16	1·56	43·0	95·28	None.	47876	Genuine.
	8·60	2·90	43·0	89·50	"	47878	"
	6·92	1·70	43·3	91·38	"	48077	"
	6·36	1·88	43·3	91·76	"	48081	"
	5·46	3·60	43·5	90·94	"	48084	"
	6·28	4·46	42·7	89·26	"	48088	"
	9·20	4·50	44·5	86·30	" [1]	48091	"
	6·16	1·50	43·6	92·34	"	48093	"
	5·38	2·76	42·8	91·86	"	48094	"
A. C. LARIVIERE, INSPECTOR.							
Crescent Creamery	15·26	3·16	43·4	81·58	None.	47479	Below standard in fat. Adulterated.
Brookfield Creamery	10·00	3·30	43·9	86·70	"	47480	Genuine.
	2·54	1·52	43·5	95·94	"	47481	"
From Cowansville, P.Q.	3·24	1·20	43·6	95·59	"	47482	"
	6·10	1·10	43·9	92·80	"	47483	"
	13·84	5·50	44·8	80·66	" [2]	47484	Below standard in fat. Adulterated.
	13·74	1·46	42·9	84·80	"	47485	Genuine.
	13·36	1·66	44·0	84·98	"	47486	"
	15·17	3·38	43·5	81·45	"	47487	Below standard in fat. Adulterated.
"Prairie Rose"	16·82	3·90	42·5	79·28	"	47488	Below standard in fat and excess water. Adulterated.

[1] Reichert Meissl number, 29·7.

[2] Reichert Meissl number 28·7.

BULLETIN No. 238—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF CALGARY—							
1912.							
March 6	Table Butter....	44111	Capital Mercantile Co., Edmonton, Alta.	1 lb.	45	Gilt Edge Creamery, Edmonton.	
" 7	"	44112	Hudson Bay Co., Edmonton, Alta.	1 "	40	Swift Packing Co., Evanstown.	
" 7	"	44113	Acme Co., Edmonton, Alta.	1 "	50	Edmonton City Dairy, Edmonton.	
" 8	"	44114	Hallier & Aldridge, Edmonton, Alta.	1 "	45	Swift Co., Edmonton.	
" 8	"	44115	J. H. Morris & Co., Edmonton, Alta.	1 "	45	Flavelle, Ltd., Lindsay, Ont.	
" 15	"	44116	P. Burns Co., Ltd., Calgary.	1 "	40	Vendors	
" 15	"	44117	Maitland & Co., Calgary.	1 "	45	The Swift Canadian, Calgary.	
" 15	"	44118	Hallett & Longden, Calgary.	1 "	45	" "	
" 15	"	44119	S. G. Freeze, Calgary.	1 "	45	Campbell & Griffith, Calgary.	
" 15	"	44120	Calgary Cattle Co., Calgary.	1 "	40	P. Burns & Co., Ltd., Calgary.	
DISTRICT OF NELSON—							
Feb. 13	Table Butter...	48493	England & Son, Kamloops, B.C.	1 lb.	45	Swift Canadian Co., Edmonton.	
" 13	"	48494	" "	1 "	45	F. R. Stewart & Co., Vancouver.	
" 13	"	48495	" "	1 "	40	" "	
" 13	"	49601	Hudson Bay Co., Kamloops, B.C.	1 "	40	" "	
" 13	"	49606	Stevens & Allen, Kamloops, B C.	1 "	40	A. P. Slade & Co., Vancouver.	
" 13	"	49610	P. Burns & Co., Kamloops, B.C.	1 "	40	Vendors, Calgary	
" 20	"	49623	F. L. Rosenberg, Ashcroft, B.C.	1 "	45	New Westminster Creamery Co., New Westminster.	
" 20	"	49624	J. J. Ling & Co., Ashcroft, B.C.	1 "	40	W. H. Malkin Co., Vancouver.	
" 20	"	49625	" "	1 "	40	Swift Canadian Co., Edmonton.	
" 20	"	49626	" "	1 "	40	Milne & Gunn, Vancouver.	

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TABLE BUTTER.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro refractometer reading at 40°C.	Dry saltless Butter.	Boric acid.		
R.W. FLETCHER, INSPECTOR.							
	p. c.	p. c.		p. c.			
....	12·36	1·52	42·7	86·12	Present.	44111	Genuine.
.. .	10·52	2·70	43·5	86·78	None. ..	44112	"
. . .	10·40	1·96	43·6	87·70	" ...	44113	"
	7·04	1·80	45·3	91·66	" ...[1]	44114	"
	10·88	3·08	43·7	86·04	" . .	44115	"
	11·56	3·46	43·2	84·98	" ...	44116	"
	13·40	2·06	42·7	84·54	" ...	44117	"
. . .	11·02	1·50	42·9	87·48	" ...	44118	"
. ... .	12·31	2·52	43·9	85·14	Present.	44119	"
"Shamrock" Brand	14·08	2·84	43·6	83·18	None. .	44120	"
THOS. PARKER, INSPECTOR.							
. ...	5·20	2·00	45·3	92·80	None. .[2]	48493	Genuine.
. ....	12·06	1·66	43·2	86·28	" ...	48494	"
. ... .	9·14	1·60	42·5	89·26	" ...	48495	"
. ...	3·80	1·00	42·8	95·20	" ...	49601	"
....	13·52	2·08	42·3	84·40	" ...	49606	"
.. ..	3·14	1·56	44·0	95·30	" ..	49610	"
....	6·68	2·00	45·2	91·32	" ...[3]	49623	"
.. . .	8·24	2·30	43·3	89·46	" ...	49624	"
....	8·06	1·66	43·5	90·28	" . .	49625	"
... .	6·72	1·58	43·5	91·70	" ...	49626	"

[1] Reichert Meissl number, 25·0. [2] Reichert Meissl number, 26·0. [3] Reichert Meissl number, 28·3.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF VANCOUVER—	
1912.							
Feb. 13.	Table butter	38265	J. Graham, Milner, B.C.	1 lb.	40	New Zealand Produce Co., Pahiatua, N.Z.	
" 13.	"	38266	Burrows & Carncross, Cloverdale, B.C.	1 "	40		A. P. Slade & Co., Vancouver.
" 13.	"	38267	H. V. Parr, Cloverdale, B.C.	1 "	35	Unknown	Farmers
" 13.	"	38268	Lillie's Cash Grocery, Chilliwack, B.C.	1 "	35		A. P. Slade & Co., Vancouver.
" 13.	"	38269	Ashwell's Dept. Store, Chilliwack, B.C.	1 "	40	Chilliwack Creamery, Chilliwack, B.C.	
" 14.	"	38270	McFee & Kerr, Abbottsford, B.C.	1 "	35	J. Wolfe, Abbottsford, B.C.	
" 14.	"	38271	S. Brook, Abbottsford, B.C.	1 "	40		F. R. Stewart & Co., Vancouver.
" 14.	"	38272	N. Antier, Abbottsford, B.C.	1 "	45	Abbottsford Valley Creamery, Abbottsford.	
" 15.	"	38273	Bowie's Bakery, Mission Jct., B.C.	1 "	40		A. P. Slade & Co., Vancouver.
" 15.	"	38274	Des Brisay Gen. Store, Mission Jct., B.C.	1 "	40		W. H. Malkin & Co., Vancouver.
						DISTRICT OF VICTORIA—	
Feb. 27.	Table butter	47681	Windsor Grocery Co., Victoria, B.C.	1 lb.	50	Cowichan Creamery Association, Duncan, B.C.	
" 27.	"	47682	Windsor Grocery Co., Victoria, B.C.	1 "	50	Salt Spring Island Creamery, Ganges Harbour, B.C.	
" 28.	"	47683	The West End Grocery Co., Ltd., Victoria, B.C.	1 "	35		R. S. Rithet & Co., Victoria, B.C.
" 28.	"	47684	The West End Grocery Co., Ltd., Victoria, B.C.	1 "	40		B. Wilson Co., Ltd., Victoria, B.C.
" 29.	"	47685	D. H. Ross & Co., Victoria, B.C.	1 "	40		Wilson Bros., Victoria, B.C.
" 29.	"	47686	D. H. Ross & Co., Victoria, B.C.	1 "	50	Island Creamery Association, Victoria, B.C.	
Mar. 1.	"	47687	Copas & Young, Victoria, B.C.	1 "	40	The Comox Creamery Association, Courtenay, B.C.	
" 1.	"	47688	Wm. B. Hall, Victoria, B.C.	1 "	45	Northwestern Creamery, Victoria, B.C.	
" 6	"	47689	Harrison & McDonald, Victoria, B.C.	1 "	40		Northwestern Creamery, Victoria, B.C.
" 6.	"	47690	Acton Bros., Victoria, B.C.	1 "	40		B. Wilson Co., Ltd., Victoria, B.C.

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TABLE BUTTER.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Water.	Salt.	Butyro-refractometer Reading at 40° C.	Dry Salt-free Butter.	Boric Acid.		
J. F. POWER, INSPECTOR.							
	p. c.	p. c.		p. c.			
	13 82	2 20	42 3	83 98	Present.	38265	Genuine
	11 84	2 20	43 0	85 96	None.	38266	"
	1 70	1 46	42 9	93 84	"	38267	"
	14 26	1 54	43 1	84 20	"	38268	"
	0 54	2 1	43 5	97 39	Present.	38269	"
	6 68	1 21	42 1	92 08	None.	38270	"
	7 84	2 00	42 7	90 10	"	38271	"
	5 82	2 26	43 7	91 92	"	38272	"
	9 84	2 34	42 2	87 82	"	38273	"
	7 12	3 20	41 2	89 68	Present.	38274	"
D. O'SULLIVAN, INSPECTOR.							
	10 40	0 50	43 2	89 10	None.	47681	Genuine
	9 10	2 20	42 0	88 70	"	47682	"
White Clover Creamery	7 10	2 66	44 0	90 24	"	47683	"
Finest New England Creamery.	7 24	1 20	42 7	91 56	"	47684	"
Auburn Creamery.	9 00	1 60	44 1	89 40	"	47 85	"
Island Creamery	7 88	0 54	42 1	91 58	"	47686	"
. . . . .	10 40	1 10	42 2	88 20	"	47687	"
Northwestern Creamery	6 92	1 56	43 4	91 52	"	47688	"
. . . . .	11 24	1 30	42 2	84 46	"	47689	"
Lindow Grove Creamery.	15 04	2 26	43 0	82 70	Present.	47690	"

APPENDIX C.

BULLETIN No. 239—CIDER AND SWEET CIDER.

OTTAWA, May 14, 1912.

WM. HIMSWORTH, Esq.,
Ass't Deputy Minister of Inland Revenue.

SIR,—I beg to report upon sixty-nine (69) samples of beverages sold as Cider or as Sweet Cider.

These terms are defined by Order in Council taking effect from March 13, 1911.

Cider is defined as follows :—

4. Cider, Hard Cider, is the product made by the normal alcoholic fermentation of apple juice, and the usual cellar treatment, and contains not more than seven (7) per cent by volume of alcohol, and in one hundred (100) cubic centimetres (20° C.) of the cider, not less than two (2) grammes nor more than twelve (12) grammes of solids, not more than eight (8) grammes of sugars, in terms of reducing sugars, and not less than twenty (20) centigrammes nor more than forty (40) centigrammes of cider ash.

Of thirty-three samples sold as Cider, twenty-seven samples meet the requirements of legal definition, and must be recognized as genuine, under the Act. Six samples which fail to meet the standards named, appear to have had water added to the apple juice. This is indicated by the small amount of mineral matter (ash) present. Six samples contain preservatives.

Apple Juice or Sweet Cider is defined as follows :—

2. Apple Juice, Apple Must, Sweet Cider, is the fresh fruit juice obtained from apple, the fruit of *Pyrus malus*, has a specific gravity (20° C.) not less than 1·0415 nor greater than 1·0690; and contains in one hundred (100) cubic centimetres (20° C.) not less than six (6) grammes, and not more than twenty (20) grammes of total sugars, in terms of reducing sugars, not less than twenty-four (24) centigrammes nor more than sixty (60) centigrammes of apple ash, which contains not less than fifty (50) per cent of potassium carbonate.

Out of thirty six samples sold as Cider, only eight are found to meet the requirements of the legal definition. It may be urged, in some cases, that the definition quoted does not apply since the articles are labelled with modified names as "Champagne Cider", "Raspberry Cider", &c.; but so long as the word cider appears upon the label, and the beverage is supplied to our inspectors on a demand for cider, it seems proper to judge the article as cider.

In connection with Compound (hyphenated) names, it is important to note that these names must not misrepresent the article. Where one of the components is itself a legal name for a specific article such as Cider, Wine, Coffee, &c., it is evident that the compound name can only apply properly to an article of which the specific constituent in question is the essential or basic part. Thus Coca-Wine, implies the presence of wine; Champagne Cider, implies the presence of Cider; Decaffeinated Coffee implies the presence of Coffee, &c.

Our beverage standards provide for the use of the terms Sparkling Cider; Champagne Cider; but define this article as "*Cider*, impregnated with carbonic acid,

&c." A solution of sugar and flavouring extracts is not cider; and the impregnating of such a solution with gas, does not constitute it a sparkling cider.

Imitations of cider, if labelled so as not to deceive, are legitimate articles, provided they contain nothing injurious to health.

There are certain beverages, such as Ginger Ale, Ginger Beer, Sassafras Beer, Root Beer, &c., which have been long in use, and are well understood to be non-alcoholic, although involving the terms ale and beer, which properly apply to alcoholic beverages. In the case of these articles, it may be pleaded that long usage and public acceptation justifies the name; and it is possible that the plea may hold good. It is not a part of the duty of this Department to make language. This must be decided by popular usage. But it is our duty to see that language is employed in such a way as to guide the purchaser, and not to deceive him. Final ruling in cases of this kind, must be based upon the careful study of the particular matter in hand. So far as I know, nothing else than the juice of apples (fermented or unfermented) is entitled to the term cider used either simply or in combination. Such a name as "Raspberry Cider" means nothing, unless it implies an apple juice flavoured with raspberry.

Such a name as "Boiled Cider" or "Concentrated Cider" or "Condensed Cider," if applied to an article made from cider by boiling, would appear to be perfectly proper, as correctly describing the material sold. If applied to an artificial solution, in imitation of a cider concentrate, it would, of course, be misleading and fraudulent.

There need, I venture to think, be no difficulty in so naming any modification of apple juice as to correctly inform the purchaser regarding what is supplied to him. Apple juice, pure and simple, is not cider, any more than grape juice is wine. Fermentation is essential to the production of cider. The name *Sweet Cider* is recognized, by wide usage, as an equivalent for apple juice.

If it be desired to remove the alcohol from fermented apple juice, the resultant beverage is properly described as dealcoholized cider, or non-alcoholic cider, or by some other plain and intelligible name. If it be desired to keep the alcohol in a cider below a fixed percentage, and this be accomplished by adding water, or sugar and water, to the article, this can correctly be described as watered cider, or diluted cider. But it must not be sold as cider.

It must be clearly understood that the word adulterated in this bulletin, is used conformably to Section 3, g, of the Adulteration Act, which states that "food shall be deemed to be adulterated if its strength or purity falls below the standard, &c.

This is no suggestion of the addition of anything harmful to health.

Since this is a first inspection under legal definition, it is open to question whether the penalties prescribed by the Act need be enforced. It may be reasonable to regard this inspection and report rather as a means of bringing these recently enacted standards to the notice of the trade, and the public.

The last inspection of cider was made in July and August, 1908; and was reported as Bulletin No. 169 in December of that year.

I would respectfully recommend publication of the present report as Bulletin No. 239

I have the honour to be, sir, your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantit	Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
DISTRICT OF NOVA SCOTIA—								
1912.								
Feb. 19	Sweet Cider.	47026	Wentzels, Ltd., Halifax, N.S.	3 bots.	25	Annapolis Valley Cider Co., Bridgetown, N.S.	Mfrs.	Sold as Apple Cider.
" 23	"	47028	Annapolis Valley Cider Co., Bridgetown, N.S.	3 "	Nil.	Vendors		"
Mar. 6	"	47030	Jas. Rowe, Halifax, N.S.	3 "	Nil.	Cleveland Cider Co., Ohio, U.S.	Mfrs.	"
DISTRICT OF PRINCE EDWARD ISLAND—								
Feb. 14	Sweet Cider.	46171	R. F. Maddigan & Co., Charlottetown P.E.I.	3 bots.	30	Annapolis Valley Cider Co., Ltd.		
" 16	"	46173	J. Ching, Summerside, P.E.I.	3 "	30		N. Rathenbury Ltd., Charlottetown P.E.I	
" 16	Orange Cordial.	46174	J. M. Noonan, Summerside, P.E.I.	3 "	30	G. E. Barbour & Co., Ltd., St. John, N.B.		
DISTRICT OF NEW BRUNSWICK—								
Feb. 6	Sweet Cider.	45611	W. A. Simonds, St. St. John, N.B.	3 bots.	60	Annapolis Valley Cider Co., Ltd., Bridgetown, N.S		Bottled Cider.
DISTRICT OF QUEBEC—								
Feb. 6	Sweet Cider.	37368	Arthur Rinfret, 414 Rue St. Joseph, Quebec.	3 "	40	F.A.Fleuet, Quebec.	Mfr.	
" 7	"	37370	Arthur Drolet, 414 Rue St. Valier, Quebec.	3 "	18	Chas. Bedard, Quebec.	"	
" 12	"	37372	Cantin & Frère. 271 Rue St. Joseph, Quebec.	3 "	18	Eliz. Fortier & Co., Quebec.	"	
" 13	"	37400	P. Reneaud, 537 Rue St. Valier, Quebec	3 "	25	F. A. Fleuet & Cie, Quebec.	"	
DISTRICT OF ST. HYACINTHE—								
Mar. 12	Sweet Cider.	39048	Pierre Paul, Sorel	1 bot.	15	Dme. X. Berard, Sorel.		

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SWEET CIDER.

Results of Analysis.

Sp. Gr. of Cider at 15·5°C.	Sp. Gr. of Distillate.	Sp. Gr. of Residue.	Alcohol by Volume.	Grammes per 100cc.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undetermined Solids	Alkalinity of Ash as K_2CO_3	Preservatives.		
R. J. WAUGH, INSPECTOR.													
1·0373	0·9994	1·0383	0·40	9·96	6·87	2·41	9·28	0·21	0·47	0·10	None.	47026	Density and ash nearly up to standard. Doubtful.
1·0312	0·9993	1·0316	0·46	8·20	0·84	5·75	6·59	0·11	1·51	0·04	"	47028	Density and ash too low. Adulterated.
1·0380	0·9992	1·0388	0·53	9·44	3·72	4·54	8·26	0·04	1·14	0·02	"	47030	Ash too low. Watered. Adulterated.
WM. A. WEEKS, INSPECTOR.													
1·0213	0·9979	1·0238	1·42	11·17	8·20	0·81	9·01	0·08	2·08	0·05	None	46171	Density and ash low. Adulterated.
1·0275	0·9983	1·0285	1·13	7·28	5·64	None.	5·64	0·15	1·50	0·10	"	46173	Density and ash low. Adulterated.
1·0546	0·9979	1·0566	1·42	14·73	10·96	1·80	12·76	0·05	1·92	0·01	"	46174	Not sold as Cider.
J. C. FERGUSON, INSPECTOR.													
1·0300	0·9991	1·0310	0·60	7·86	5·48	1·56	7·04	0·09	0·73	0·04	None.	45611	Density and ash low. Adulterated.
F. X. W. E. BELAND, INSPECTOR.													
1·0273	0·9998	1·0282	0·13	7·50	1·40	5·40	6·80	0·16	0·54	0·005	None.	37368	Density and ash low. Adulterated.
1·0225	0·9995	1·0230	0·33	6·06	4·69	1·28	5·97	0·08	None.	0·02	"	37370	"
1·0320	1·000	1·0320	None.	8·87	0·95	7·70	8·65	0·12	0·10	0·01	"	37372	"
1·0362	0·9998	1·0372	0·11	9·68	1·12	7·39	8·51	0·08	1·10	0·01	"	37400	"
J. C. ROULEAU, INSPECTOR.													
1·0193	0·9996	1·0197	0·33	5·28	0·60	3·40	4·00	0·04	1·24	0·02	None.	39048	Density and ash low, adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of the Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF MONTREAL—		
1912.								
Feb. 24	Sweet Cider.	40837	Robert Millar, 168 St. Maurice St., Montreal.	3 bots.	30	.....	.....	Bottled by Vendor. Labelled Royal Windsor Champagne Cider.
Mar. 8	"	40839	Harris Co., 158 Demontigny St., Montreal.	3 "	15	.....	.....	Labelled Christin's Champagne Cider
" 8	"	40840	S. Dionne, 140 Dorchester St. E., Montreal.	3 "	25	.....	.....	Labelled Sweet Apple Cider
						DISTRICT OF OTTAWA—		
Feb. 20	Sweet Cider.	50131	Calderone & Bossio, Ottawa.	3 bots.	15	S. Patterson & Co., Toronto.	H.S. Anstiss & Co., Ottawa.	Apple Cider..
" 20	"	50132	H. N. Anstiss, Ottawa.	3 "	15	"	Mfrs.....	" ..
						DISTRICT OF KINGSTON—		
Feb. 5	Sweet cider.	49531	Geo. Thompson, Kingston.	1 qt.	15	Belleville Cider and Vinegar Co.	.....	.....
" 5	"	49532	E. Beaupre, Kingston.	1 "	15	S. Allen, Norwich.	.....	.....
" 8	"	49554	P. S. White, Kingston.	1 "	10	"	.....	.....
						DISTRICT OF TORONTO—		
Feb. 20	Sweet cider.	49363	Taylor & Pringle Co., Ltd., Owen Sound.	3 bots.	15	Vendors.....	.....	.....
Mar. 4	"	49364	S. Patterson & Co., 318 Berkley st., Toronto.	3 "	25	"	.....	Genuine Apple Cider.
" 4	"	49365	T. B. Franklin, 729 Queen st. East, Toronto.	3 "	10	.....	The Whitby Fruit and Vinegar Co., Whitby.	.....
" 4	"	49366	Mrs. R. Craig, 170 Christie st., Toronto.	3 "	20	.....	Kemp Beverage Co., Toronto.	Champagne Cider.

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SWEET CIDER.

Results of Analysis.														
				Grammes per 100 CC.										
Sp. Gr. of Cider at 15·5 C.	Sp. Gr. of Distillate.	Sp. Gr. of Residue.	Alcohol by Vol.	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undetermined Solids	Alkalinity of Ash as K_2CO_3.	Preservatives.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
J. J. COSTIGAN, INSPECTOR.													
1·0183	0·9996	1·0184	0·26	4·64	1·34	3·18	1·52	0·04	0·08	0·02	None.	40837	Density and ash low. Adulterated.
1·0288	0·9996	1·0293	0·26	7·38	1·29	5·50	6·79	0·32	0·27	None	"	40839	Density and Alkalinity of ash too low. Adulterated.
1·0274	0·9982	1·0276	1·19	7·22	6·01	0·22	6·23	0·11	0·89	0·04	"	40840	Density and ash low. Adulterated.
J. A. RICKEY, INSPECTOR.													
1·0543	0·9975	1·0575	1·73	11·64	10·40	1·75	12·15	0·34	2·15	0·24	Benzoic acid.	50131	Genuine.
1·0658	1·000	1·0659	None	13·53	12·49	None	12·49	0·30	0·74	0·24	"	50132	"
JAS. HOGAN, INSPECTOR.													
1·0155	0·9994	1·0159	0·40	9·52	5·21	1·99	7·20	0·21	2·08	0·18	Salicylic acid.	49531	Density low. Adulterated.
1·0346	0·9981	1·0370	1·26	9·16	7·21	0·23	7·47	0·16	1·53	0·12	Benzoic acid	49532	Density and ash low. Adulterated.
1·0463	0·9992	1·0467	0·53	11·45	8·70	None.	8·70	0·29	2·46	0·25	None.	49551	Genuine.
H. J. DAGER, INSPECTOR.													
1·0532	0·9982	1·0547	1·19	15·37	9·78	1·05	10·83	0·30	2·54	0·22	Benzoic acid.	49363	Genuine.
1·0596	0·9994	1·0605	0·40	15·27	11·47	1·43	12·90	0·32	2·05	0·24	"	49364	"
1·0736	0·9998	1·0744	0·13	18·81	12·95	2·70	15·65	0·39	2·77	0·25	"	49365	"
1·0373	0·9995	1·0376	0·33	10·82	5·48	3·07	8·55	0·04	2·23	0·02	None	49366	Density and ash low. Adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of the Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
						DISTRICT OF MANITOBA—		
1912.								
Feb. 19.	Champagne.	48616	Carson's Confectionery, Main st. North, Winnipeg.	3 bots.	75	The Blackwoods, Ltd., Winnipeg.	Mfrs.	Orange Pure Fruit Champagne.
" 19.	Sweet cider.	48617	Prairie Restaurant, Main st. North, Winnipeg.	3 "	60	E. L. Drewry, Winnipeg.	"	Orange Cider.
" 19.	"	48619	The White Star Mfg. Co., Winnipeg.	3 "	35	Vendors.		"
" 19.	"	48620	" "	3 "	25	"		Raspberry Cider.
						DISTRICT OF CALGARY—		
Mar. 9.	Sweet cider.	44133	Hallier & Aldridge, Edmonton.	3 bots.	60		Brown & Co., Edmonton.	
						DISTRICT OF NELSON—		
Feb. 26.	Sweet cider.	49635	J. A. McDonald, Nelson.	3 bots.	30	Spokane Cider Works, Spokane, U.S.		
						DISTRICT OF VANCOUVER—		
Feb. 19.	Boiled cider.	38305	New Westminster Co-op. Association, New Westminster.	3 bots.	90	W. K. Houston, Victoria, B.C.		Pure Boiled Cider.
" 19.	Sweet cider.	38306	Gold Seal Liquor Co., Ltd., Vancouver, B.C.	3 "	45	Am. Fruit Products Co., Rochester, N.Y.		Duffy's refined pure fruit champagne cider. Bottled by Vendors.
" 19.	"	38307	F. Filion, Carrall st., Vancouver, B.C.	3 "	75	Pacific Mfg. Co., Victoria, B.C.		Champagne Cider.
" 19.	"	38308	Hudson's Bay Co., Vancouver, B.C.	3 "	75		Cross & Co., Vancouver	Allen's pure Apple Cider
						DISTRICT OF VICTORIA—		
Feb. 28.	Boiled cider.	49116	The West End Grocery, Victoria, B.C.	3 bots.	100		W. K. Houston & Co., Victoria, B.C.	Pure Boiled Cider.
Mar. 1.	Sweet cider.	49118	Copas & Young, Victoria, B.C.	3 "	60		C. Morely, Victoria, B.C.	Celebrated Oregon cider.

SWEET CIDER.

Results of Analysis.														
Sp. Gr. of Cider at 15·5 C.	Sp. Gr of Distillate.	Sp. Gr. of Residue.	Alcohol by Vol.	Grammes per 100 CC.					Undetermined Solids	Alkalinity of Ash as K_2CO_3	Preservatives	No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.					
A. C. LARIVIERE, INSPECTOR.													
1·0307	0·9992	1·0317	0·53	7·82	1·40	5·25	6·65	0·12	1·17	0·09	Salicylic acid.	48616	Density and ash low. Not sold as cider.
1·0234	0·9997	1·0240	0·20	11·05	3·40	5·51	8·91	0·22	1·92	0·15	"	48617	Density and ash low. Adulterated.
1·0122	0·9978	1·0141	1·19	11·13	0·32	8·90	9·22	0·12	1·79	0·10	Benzoic acid	48619	Ash low. Adulterated.
1·0187	0·9997	1·0196	0·20	13·17	0·26	10·63	10·89	0·14	2·14	0·09	"	48620	
R. W. FLETCHER, INSPECTOR.													
1·0106	0·9975	1·0127	1·73	3·29	2·34	None	2·34	0·16	0·70	0·09	Salicylic acid	41133	Density and ash low. Adulterated.
THOS. PARKER, INSPECTOR.													
1·0115	0·9975	1·0178	1·73	12·07	7·75	1·75	9·50	0·23	2·31	0·18	Benzoic acid	49635	Genuine.
J. F. POWER, INSPECTOR.													
1·2499	0·9987	1·2516	0·86	61·08	11·62	1·75	46·37	1·50	13·81	1·13	Benzoic acid	38305	Concentrated with addition of sugar.
1·0003	0·9898	1·0112	0·13	2·66	0·62	0·57	1·19	0·26	1·21	0·22	None	38306	Density and sugar too low. Adulterated.
1·0298	0·9972	1·0331	1·96	8·28	7·08	None	7·08	0·20	1·00	0·13	"	38307	Density and ash low. Adulterated.
1·0341	0·9982	1·0360	1·19	8·64	6·92	"	6·92	0·20	1·52	0·19	Salicylic acid	38308	Density and ash low. Adulterated.
D. O'SULLIVAN, INSPECTOR.													
1·2308	0·9998	1·2325	0·79	60·00	47·00	3·52	50·52	1·40	9·08	1·19	Benzoic acid.	19116	Concentrated with added sugar.
1·0510	0·9997	1·0512	0·20	13·63	8·67	2·22	10·89	0·27	2·47	0·24	"	49118	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
DISTRICT OF NOVA SCOTIA—								
1912.								
Feb. 23	Hard Cider.	47027	P. N. Bishop, Kentville, N.S.	3 bots.	10	F. Drake, New Glasgow, N.S.	Mfr	Sold as Apple Cider.
Mch. 5	"	47029	F. Drake, New Glasgow, N.S.	3 "	Nil.	S. Allen, Norwich, Ont.	"	"
DISTRICT OF PRINCE EDWARD ISLAND—								
Feb. 14	Hard Cider.	46172	J. P. Duffy, Charlottetown, P.E.I.	3 bots.	30	S. Allen, Norwich, Ont.		
" 21	"	46175	M. A. Paquet, Souris, P.E.I.	3 "	25		Sussex Mineral Spring Co., Sussex, N.B.	
DISTRICT OF NEW BRUNSWICK—								
Feb. 15	Hard Cider.	45612	Harry G. McBeath, St. John, N.B.	3 bots.	15		Dearborn & Co., St. John, N.B.	Bulk Cider.
Mch. 5	"	45613	Wm. P. Grannan, Fredericton, N.B.	3 "	15		H. Crotty, Fredericton, N.B.	Allen's refined Apple Cider, Norwich, Ont.
" 12	"	45615	King, Asbell & Co., Sussex, N.B.	3 "	15		Willett Fruit Co., St. John, N.B	
DISTRICT OF QUEBEC—								
Feb. 7	Hard Cider.	37369	Arthur Drolet, 714 Rue St. Valier, Quebec.	3 bots.	60	Belvil Fruit and Vinegar Co., Bristol.	Langlois & Paradis.	
DISTRICT OF ST. HYACINTHE—								
Feb. 20	Hard Cider.	39046	A. C. Poutre, St. Jean.	3 bots.	30	Unknown	Unknown	
Mch. 25	"	39049	Thos. Hebert, St. Hyacinthe.	1 "	10	Wilson, Lytle & Badgerow, Toronto.		

HARD CIDER.

Results of Analysis.														
Sp. Gr. of Cider at 15·5°C.	Sp. Gr. of Distillate.	Sp. Gr. of Residue.	Alcohol by Vol.	Grammes per 100 cc.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undetermined Solids.	Alkalinity of Ash as K_2CO_3.	Preservatives.		
R. J. WAUGH, INSPECTOR.													
1·0295	0·9957	1·0248	3·07	6·26	1·95	None.	1·95	0·20	1·11	0·11	None.	17027	Genuine.
1·0142	0·9950	1·0198	3·55	4·97	2·66		2·66	0·22	2·09	0·12	"	17029	"
WM. A. WEEKS, INSPECTOR.													
1·0260	0·9964	1·0295	2·58	7·74	6·50	None.	6·50	0·20	0·94	0·10	None.	16172	Genuine.
1·0291	0·9971	1·0327	2·01	8·39	7·08	"	7·08	0·14	1·17	0·08	"	16175	Ash too low. Apple juice watered. Adulterated.
J. C. FERGUSON, INSPECTOR.													
1·0360	0·9957	1·0105	3·07	9·79	7·21	0·05	7·29	0·36	2·14	0·32	Benzoic Acid.	15612	Genuine.
1·0267	0·9966	1·0305	2·13	7·17	6·23	None.	6·23	0·24	1·00	0·10	"	15613	
1·0067	0·9919	1·0111	5·86	3·14	0·95		0·95	0·30	1·89	0·21	Salicylic Acid.	15615	"
F. X. W. E. BELAND, INSPECTOR.													
1·0216	0·9927	1·0281	5·24	7·22	1·84	None.	4·84	0·21	2·14	0·20	None.	37369	Genuine.
I. C. ROULEAU, INSPECTOR.													
1·0059	0·9912	1·0148	6·48	3·52	1·64	0·20	1·84	0·30	1·38	0·25	None.	39046	Genuine.
1·0033	0·9925	1·0105	5·39	2·22	0·74	None.	0·74	0·10	1·38	0·07	"	39049	Ash too low. Apple juice watered. Adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.
						DISTRICT OF MONTREAL—		
1912.								
Feb. 21	Hard Cider.	40836	Robert Millar, 168 St. Maurice St., Montreal.	3 bots.	30	.....	.....	Allen's Apple Cider. Bottled by Vendor.
Mch. 8	" ..	40838	J. T. Mallette, Ontario Street East, Montreal.	3 " .	30	.....	.....	Labelled Millar's Celebrated Genuine Sparkling Apple Cider
						DISTRICT OF OTTAWA—		
Feb. 20	Hard Cider.	50133	C. Stratton, Ottawa.	3 bots.	15	Allen, Norwich, Ont.	C. E. Plain, Ottawa.	Apple Cider..
" 20	" ..	50134	Bate & Co., Ottawa.	3 " .	75	RossBros., Liverpool, Eng.	Chas. Parker, Ottawa.	Ross' Sparkling Devonshire Cyder.
" 21	" ..	56135	A. E. Rea & Co., Ltd., Ottawa.	3 " .	75	S. Allen, Norwich, Ont.	C. E. Plain, Ottawa.	Apple Cider..
						DISTRICT OF KINGSTON—		
Feb. 7	Hardcider	49525	S. Fort, Port Hope .	1 qt..	10	S. Allen, Norwich, Ont.	.....	.....
" 7	" .	49535	W. D. Stephens, Port Hope.	1 " ..	10	" ..	.....	.....
						DISTRICT OF TORONTO—		
Feb. 8	Hardcider	49362	A. Ballentine & Bros., 171 John St., South Hamilton.	3 bots.	15	S. Allen, Norwich, Ont.	..	.....
						DISTRICT OF WINDSOR—		
Feb. 12	Hardcider	47871	A. H. Gammon & Son, Sarnia.	3 bots.	8	.....	S. Allen, Norwich.	.....
" 13	" .	47874	W. H. Trecker, Sarnia.	3 " .	5	.....	" ..	.....
" 13	" .	47875	Peter Clark, Sarnia.	3 " .	8	Whitby Cider & Vinegar Co., Whitby, Ont.	.....	.....

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HARD CIDER.

Results of Analysis.														
				Grammes per 100cc.										
Sp. gr. of cider at 15.5°C.	Sp. gr. of Distillate.	Sp. gr. of Residue.	Alcohol by Volume.	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undetermined Solids.	Alkalinity of Ash as K_2CO_3.	Preservatives.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. J. COSTIGAN, INSPECTOR.													
1·0271	0·9935	1·0338	4·63	8·30	7·45	None.	7·45	0·26	0·59	0·19	None.	40836	Genuine.
1·0072	0·9969	1·0159	6·63	3·92	1·34	1·24	2·58	0·21	1·13	0·18	"	40838	
J. A. RICKEY, INSPECTOR.													
1·0292	0·9952	1·0345	3·42	9·1	6·97	0·62	7·59	0·31	1·24	0·24	None.	50133	Genuine.
1·0211	0·9940	1·0272	3·98	6·73	5·43	None.	5·43	0·27	1·03	0·17	"	50134	
1·0135	0·9941	1·0190	4·20	4·81	4·69	.	4·69	0·12	0·03	0·11		50135	Ash too low. Apple juice watered. Adulterated.
JAS. HOGAN, INSPECTOR.													
1·0227	0·9954	1·0276	3·28	6·96	4·69	1·00	5·69	0·25	1·02	0·13	None	49525	Genuine.
1·0263	0·9944	1·0321	3·98	8·02	5·91	0·20	6·11	0·28	1·63	0·19	"	49538	"
H. J. DAGER, INSPECTOR.													
1·0140	0·9922	1·0217	5·63	5·04	2·76	0·38	3·14	0·28	1·62	0·26	None.	49362	Genuine.
JNO. TALBOT, INSPECTOR.													
1·0520	0·9957	1·0197	3·07	6·41	3·16	0·95	4·11	0·29	2·04	0·29	None.	47871	Genuine.
1·0010	0·9905	1·0105	6·94	2·68	0·52	0·12	0·64	0·32	1·70	0·26	"	47874	"
1·0199	0·9940	1·0253	5·00	6·15	3·51	2·50	5·01	0·30	0·84	0·24	Benzoic acid.	47875	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report. (Is not an expression of opinion.
DISTRICT OF MANITOBA—								
1912.								
Feb. 19	Hard cider	48618	The Blackwood Ltd., Winnipeg.	3 bots.	Nil.	Vendors.		Apple cider...
DISTRICT OF CALGARY—								
Mar. 9	Hard cider	44131	Acme Co., Edmonton	3 bots.	60	Annapolis Valley Cyder Co., Ltd., Bridgetown, N.S.		
" 9	"	44132	A. C. Dempsey, Edmonto.	3 "	60		A. C. McDonald Co., Edmonton.	
" 9	"	44134	Edmonton Wine Spirit, Co., Edmonton.	3 "	90	Paul Taintier, France.		
" 13	"	44135	Hudson Bay Co., Calgary.	3 "	75	Annapolis Valley Cyder Co., Ltd., Bridgetown, N.S.		
DISTRICT OF NELSON—								
Feb. 13	Hard cider	48500	Hudsons Bay Co., Kamloops, B.C.	3 bots.	1 50	Bulmer & Co., Hereford, Eng.		
" 13	"	49611	Wilson Grocery Co., Kamloops, B.C.	3 "	75	Annapolis Valley Cyder Co., Ltd., Bridgetown, N.S.		
" 20	"	49622	Carlson & Nelson, Savona, B.C.	3 "	45	Cross & Co., Vancouver.		
DISTRICT OF VANCOUVER—								
Feb. 19	Hard cider	38309	London Grocery Co., Ltd., Vancouver, B.C.	3 bots.	75	T. P. Griffin & Co., Liverpool, Eng.		The pure juice of Devonshire apples.
DISTRICT OF VICTORIA—								
Feb. 27	Hard cider	49115	Windsor Grocery Co., Victoria, B.C.	3 bots.	75	T. P. Griffin & Co., London, Eng.		Devonshire cider.
" 29	"	49117	D. A. Ross & Co., Victoria, B.C.	3 "	75		Kelly Douglas Co., Ltd., Vancouver.	Ontario cider.
Mar. 6	"	49119	Harrison & McDonald, Victoria, B.C.	3 "	75		W. O. Wallace, Victoria.	Champagne cider.

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HARD CIDER.

Results of Analysis.														
				Grammes per 100cc.										
Sp. gr. of cider at 15·5°C.	Sp. gr. of Distillate.	Sp. gr. of Residue.	Alcohol by Volume.	Total Solids.	Invert Sugar.	Sucrose.	Total Sugar.	Ash.	Undetermined Solids.	Alkalinity of Ash as K^2CO^3.	Preservatives.	No. of Sample.	Remarks and Opinion of the Chief Aanalyst.
A. C. LARIVIÈRE, INSPECTOR.													
1·0223	0·9924	1·0299	5·55	7·29	4·84	None.	4·84	0·26	2·19	0·20	None.	48618	Genuine.
R. W. FLETCHER, INSPECTOR.													
1·0246	0·9937	1·0313	4·49	7·67	6·97	None.	6·97	0·09	0·61	0·08	None.	44131	Ash too low. Apple juice watered. Adulterated.
1·0278	0·9966	1·0312	2·43	7·72	6·65	"	6·65	0·21	0·86	0·11	"	44132	Genuine.
1·0178	0·9924	1·0256	5·47	6·31	4·69	"	4·69	0·22	1·40	0·12	"	44134	"
1·0287	0·9965	1·0324	2·51	8·01	6·61	"	6·71	0·12	1·09	0·09	"	44135	Ash too low. Apple juice watered. Adulterated.
THOS. PARKER, INSPECTOR.													
1·0155	0·9925	1·0229	5·39	5·78	3·73	0·05	3·78	0·24	1·76	0·18	None.	48500	Genuine.
1·0239	0·9963	1·0281	2·62	6·96	5·59	0·31	5·90	0·17	0·89	0·10	"	49611	Ash too low. Apple juice watered. Adulterated.
1·0266	0·9951	1·0312	3·49	8·01	6·28	None.	6·28	0·21	1·52	0·15	Benzoic acid.	49622	Genuine.
J. F. POWER, INSPECTOR.													
1·0168	0·9940	1·0228	4·27	5·68	3·94	None.	3·94	0·21	1·53	0·14	None.	38309	Genuine.
D. O'SULLIVAN, INSPECTOR.													
1·0145	0·9933	1·0212	4·78	5·22	1·00	None.	4·09	0·22	1·00	0·15	None.	49115	Genuine.
1·0158	0·9905	1·0253	6·94	6·45	4·84	"	4·84	0·20	1·41	0·13	"	49117	"
1·0300	0·9918	1·0382	5·94	9·28	7·08	"	7·08	0·22	1·98	0·17	Benzoic acid.	49119	"

APPENDIX D.

BULLETIN No 240—BAKING POWDERS.

Ottawa, May 28, 1912.

Wm. Himsworth, Esq.,
Assistant Deputy Minister,
Inland Revenue Department,
Ottawa.

Sir,—I beg to hand you a report upon 150 samples of baking powders, collected throughout Canada in October and November last.

Baking powders have been examined, in the large way, on four different occasions, since the Adulteration Act came into force, the last inspection being reported in Bulletin 174 (February, 1909).

This article warrants examination from two points of view; first, its efficiency as a gas producer for baking purposes; second, as regards the wholesomeness of the materials from which it is made, and the residues left in the finished bread.

So far as the present report is concerned, the baking powders found upon the Canadian markets may be arranged in four classes, on the basis of their essential acid components, as follows:—

	Samples.
Alum phosphate powders	68
Cream of tartar "	16
Acid phosphate "	31
Alum powders	5
Total	150

No complaint, upon the ground of wholesomeness, has been formulated against cream of tartar or acid phosphate powders, to my knowledge. The wholesomeness of such as contain alum, either as the sole acid component, or in combination with acid phosphate of lime, has frequently been questioned, and is, at present, an unsettled point. The matter is now in the hands of a Referee Board at Washington, D.C., composed of men whose qualifications and character are such as to command the respect of the scientific world. I am, for this reason, unwilling to open the question of alum as a material in baking powder; preferring to await publication of the results obtained by the aforesaid Referee Board.

As regards the effectiveness of baking powders of the above classes, we have the following to record:—

68 alum phosphate powders,	average	10·78	per cent	gas.
46 cream of tartar "	"	11·01	"	"
31 acid phosphate "	"	11·25	"	"
5 alum powders	average	12·40	"	"

After much consideration of the matter, and conference with manufacturers, I am of opinion that it is reasonable to require all baking powders, as sold, to yield a minimum of ten (10) per cent available gas.

These powders, as made, usually contain a slight excess of bi-carbonate of soda, so that the further addition of an acid gives a certain further amount of gas, called residual gas. This residual gas is not available in baking, except when sour milk, or other acid ingredient is added to the bread. For purposes of judging the value of a baking powder, the available gas should alone be considered.

From this point of view thirty-five (35) samples are below standard strength, twenty-three (23) of these being more than one per cent below the standard, and several of them being much more than one per cent below. Details are as follow:—

Acid phosphate powders—

Less than one per cent below	6	
More " "	11	
		17
Cream of tartar powders—		
Less than one per cent below	6	
More " "	7	
		13
Phosphate powders—		
More than one per cent below		5
Total		35

It is in the nature of a baking powder to deteriorate (in the sense of yielding gas) by keeping; the rate of deterioration depending much upon the hygroscopicity of the materials; their initial dryness; the way in which it is packed, and the conditions under which it is stored. It is clear that so far as length of time in stock, and conditions of storage are concerned, the manufacturer of the powder is irresponsible; for this reason, the retail vendor must be held responsible for the strength (gas producing power) of the article he sells. He should assure himself of the quality of the goods he buys, for his own protection; and this is provided for in section 33 of the Act; for their condition as he sells them, he must hold himself responsible.

Since we have as yet, no legal minimum prescribed for the strength of baking powders, none of those now reported can be described as adulterated under the Act. A glance at the tables accompanying this report will show that baking powder of very varying strength is offered for sale; and will emphasize the necessity of fixing a minimum gas producing power for a legal baking powder.

I have the honour to be, sir,
Your obedient servant,
A. McGILL,
Chief Analyst.

BULLETIN No. 240—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1911.							
Oct. 16	Baking Powder.	46711	F. L. Seldon & Son, Liverpool, N.S.	3 pkgs	25	E. W. Gillett Co., Toronto.	Unknown
" 18	"	46712	H. C. Barnaby & Son, Bridgewater, N.S.	3 "	45	Nat. Drug Co., Halifax, N.S.	Mfrs.
" 18	"	46713	H. E. Hall, Bridgewater, N.S.	3 "	30	E. W. Gillett Co, Toronto.	Jno. Tobin & Co., Halifax.
" 25	"	46714	Nat. Drug & Chem. Co., Halifax, N.S.	¾ lb	30	Vendors	
" 25	"	46715	J. Frank Crowe Co, Ltd., Halifax.	3 pkgs	12	E. W. Gillett Co., Toronto.	Mfrs.
" 25	"	46716	Bauld Bros., Ltd., Halifax, N.S.	3 "	10	W. M. D. Pearman, Halifax.	Mfr.
" 26	"	46717	W. M. D. Pearman, Halifax, N.S.	3 "	10	Vendor	
" 26	"	46718	W. J. Fornstall & Co., Halifax, N.S.	3 "	15	W. M. D. Pearman, Halifax.	Mfr.
" 27	"	46719	Wentzell's Ltd., Halifax, N.S.	3 "	25	White Swan Mills, Toronto, Ont.	Mfrs.
" 27	"	46720	Woodill Mfg. Co., Halifax, N.S.	3 "	10	Vendors	
DISTRICT OF PRINCE EDWARD ISLAND—							
Oct. 16	Baking Powder.	46136	John McKenna, Charlottetown, P.E.I.	¾ lb	45	Johnson's Powder Co., New Jersey.	
" 16	"	46137	R. T. Maddigan & Co. Charlotte'wn, P.E.I.	1½ lb	60	Johnson & Johnson, Charlottet'n, P.E.I.	
" 17	"	46138	S. Sanderson & Co., Charlotte'wn, P.E.I.	1½ "	45	E. W. Gillett Co., Ltd., Toronto, Ont.	
" 18	"	46139	M. Duffy, Charlottetown, P.E.I.	¾ "	30	The St. John Coffee & Spice Mills, St. John, N.B.	
" 18	"	46140	Stewart & Son, Charlottetown, P.E.I.	¾ "	30	Snowdon Forbes & Co., Montreal.	
" 20	"	46141	Kier & McFadyen, Kensington, P.E.I.	¾ "	45	Nat. Drug & Chem. Co., Halifax, N.S	
" 21	"	46142	Jas. Kennedy, Kensington, P.E.I	1 lb	60	Mayell & Co., Toronto, Ont.	
" 21	"	46143	McLellan & Co., Ltd., Summerside, P.E.I.	1 "	50	Pepsind Baking Powder Co., Montreal.	
" 21	"	46144	Brace McKay & Co., Summerside, P.E.I.	1 "	50	Pure Gold Mfg. Co., Ltd.	
" 26	"	46145	D. J. McLean, Montague, P.E.I.	¾ lb	30	The Robt. Greigg Co., Ltd., Toronto.	
DISTRICT OF NEW BRUNSWICK—							
Oct. 12	Baking Powder.	45570	Dearborn & Co., St. John, N.B.	3 pks.	30	Vendors.	
" 14	"	44571	H. W. Cole, Ltd., St. John, N.B.	3 "	22	E. W. Gillett Co., Ltd., Toronto.	
" 22	"	45572	E. W. Rowley, St. John, N.B.	3 "	30	Hamilton Coffee and Spice Co., Ltd.	

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BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	Carbon Dioxide. Available	Residual.	Total.	Character of Powder.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.	p. c.	p. c.	p. c.			
Magic Brand	10 74	1 55	12 29	Alum Phosphate	46711	
St. George Brand	9 70	1 30	11 00	Cream of Tartar	46712	Below standard (slightly).
Magic Brand	6 48	1 32	7 80	Alum Phosphate	46713	Below standard.
Sample taken from bulk	12 65	0 72	13 37	Cream of Tartar	46714	
Magic Brand	7 43	1 46	8 59	Alum Phosphate	46715	Below standard.
Woodill's German Brand	10 15	2 82	12 97	Cream of Tartar	46716	
" "	8 57	1 57	10 14	"	46717	Below standard
" "	7 57	0 09	7 66	"	46718	
White Swan Brand	11 19	1 76	12 95	Phosphate	46719	
New Process Brand	9 87	1 74	11 61	Cream of Tartar	46720	Below standard (slightly).
WM. A. WEEKS, INSPECTOR.						
	11 62	0 43	12 05	Cream of Tartar	46136	
	11 59	1 64	13 23	"	46137	
	11 95	0 58	12 53	Phosphate	46138	
	9 76	1 24	11 00	Cream of Tartar	46139	Below standard (slightly).
	5 12	1 70	6 82	Phosphate	46140	Below standard.
	8 36	1 72	11 08	Cream of Tartar	46141	Below standard.
	11 37	0 32	11 69	Alum Phosphate	46142	
Old Stock	4 86	1 74	6 60	Phosphate	46143	Below standard.
	9 46	0 06	9 52	Cream of Tartar	46144	Below standard (slightly).
	7 16	0 94	8 10	Phosphate	46145	Below standard.
J. C. FERGUSON, INSPECTOR.						
Perfect brand	13 09	0 65	13 74	Cream of Tarter	45570	
	12 46	0 68	13 14	Phosphate	45571	
Invincible 402, McLaren's purity, not guaranteed.	8 94	0 62	9 56	Cream of Tarter	45572	Below standard.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1911.							
Nov. 7	Baking Powder.	45573	The Yerxa Grocery Co., Fredericton, N.B.	3 pkgs	40	Dearborn & Co., St John, N.B.	
" 8	" ..	45574	Wolverton & Gibson, Woodstock, N.B.	3 "	45	Todhunter, Mitchell & Co., Toronto.	
" 10	" ..	45575	F. D. Sadler, Perth, N.B.	3 "	48	Royal Baking Powder Co., New York.	
" 14	" ..	45576	J. A. Davidson, Sussex, N.B.	1 "	25	Nat. Drug & Chem. Co., Ltd., Canada.	
" 15	" ..	45577	J. A. Roy, Moncton, N.B.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 16	" ..	45578	George Stables, Newcastle, N.B.	3 "	45	Hamilton Coffee and Spice Co., Hamilton, Ont.	
" 17	" ..	45579	W. J. Kent & Co., Ltd., Bathurst, N.B.	3 "	30	E. W. Gillett & Co., Ltd., Toronto, Ont.	
DISTRICT OF QUEBEC—							
Oct. 12	Baking Powder.	37328	Gantin & frere, 271 Rue St. Joseph, Que.	3 pks.	30	Unknown.	Unknown
" 13	" ..	37329	G. Gingras, 268 Rue du Roi, Que.	3 "	30	McLaren's, Hamilton	Mfrs.
" 16	" ..	37330	O. Lacroix, 19 Rue St. Joseph, Que.	3 "	30	E. R. Durkee.	J. B. Renaud & Cie.
" 16	" ..	37331	" " ..	3 "	15	W. D. McLaren.	N. Turcot & Cie
" 16	" ..	37332	" " ..	3 "	30	La National, 46 Rue St. Pierre, Que.	J. B. Renaud & frere
" 16	" ..	37333	" " ..	3 "	20	Duffy & Co., Montreal	J. B. Renaud & Cie.
" 16	" ..	37334	J. E. Gregoire, 128 Rue du Pont, Que.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	Mfrs.
" 17	" ..	37335	W. Cantin, 133 Rue du Pont, Que.	3 "	21	Unknown.	Unknown
" 17	" ..	37336	" " ..	3 "	45	J. J. Duffy, Montreal	"
" 19	" ..	37337	Elzear Gangon, 138 Rue D'Orchester, Que.	3 "	50	E. R. Durkee, Montreal.	Bedard et frere, Que.
DISTRICT OF ST. HYACINTHE—							
Oct. 25	Baking Powder.	1182	J. A. Menard, Farnham.	1 box.	10	The F. F. Dalley Co., Ltd., Hamilton.	
" 25	" .	1183	J. E. Baillargeon, Farnham.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 26	" .	1184	Levis Bergeron, Waterloo, P.Q.	1 "	15	Unknown	
" 26	" .	1185	Boright & Safford, Sutton, P.Q.	1 "	20	The Brodies Mfg. Co., Montreal.	
Nov. 6	" .	1186	May & Houlahan, Sherbrooke, P.Q.	1 "	25	W. D. McLaren, Ltd., Montreal.	
" 8	" .	1187	J. O. Moreau, Megantic.	1 "	25	Herron Leblanc, Ltd., Montreal.	

SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and opinion of the Chief Analyst.
	Carbon Dioxide.			Character of Powder.		
	Available.	Residual.	Total.			
J. C. FERGUSON, INSPECTOR - *Continued.*						
	p. c.	p. c.	p. c.			
	11 11	0 86	11 97	Cream of Tartar	45573	
	11 38	0 16	11 54		45574	
	11 82	0 39	12 21		45575	
St. George brand.	8 45	1 11	9 56		45576	Below standard.
	12 39	0 40	12 79	Phosphate	45577	
McLaren's Invincible	8 42	0 93	9 35	Cream of Tartar	45578	Below standard.
	12 70	0 28	12 98	Phosphate	45579	
F. X. W. E. BELAND, INSPECTOR						
	13 20	0 60	13 80	Phosphate	37328	
	10 90	1 50	12 40	Alum Phosphate	37329	
	13 50	0 20	13 70	Cream of Tartar & a little phosphate	37330	
	9 90	1 10	11 00		37331	Below standard (slightly).
	14 40	0 80	15 20	Alum	37332	
	10 80	0 30	11 10	Alum Phosphate	37333	
	11 40	1 20	12 60	Phosphate	37334	
	12 50	0 60	13 10	Cream of Tartar & a little phosphate	37335	
	10 70	1 20	11 90	Alum Phosphate	37336	
	12 00	0 20	12 20	Cream of Tartar & a little phosphate	37337	
J. C. ROULEAU, INSPECTOR.						
Guaranteed pure by mfrs.	10 53	1 44	11 97	Alum Phosphate	1182	
	11 80	0 33	12 13	Phosphate	1183	
Box marked Fabrique pour Louis Bergeron.	12 75	1 23	13 98		1184	
	13 14	0 59	13 73	Alum Phosphate	1185	
Cooks Friend	10 33	1 07	11 40	Cream of Tartar.	1186	
Yeastrine	12 41	2 62	15 06	Alum Phosphate	1187	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF ST. HYACINTHE—							
1911.							
Nov. 9	Baking Powder.	1188	D. S. Bachand, Coaticook.	1 box.	20	The Brodies, Montreal.	
" 10	"	1189	C. H. Kathan, Rock Island, P.Q.	1 "	25	Royal Baking Powder. New Jersey.	
" 22	"	1191	R. Goulet, Sorel.	3 "	15		J. V. Boudrais, Montreal.
" 23	"	1192	E. Brunnette, St. Hyacinthe.	3 "	15	O. Lefebvre, Montreal.	
DISTRICT OF MONTREAL—							
Oct. 17	Baking Powder.	40921	O. Sansregret, 500 Duluth Ave. E., Montreal.	3 tins.	15	Unknown	
" 18	"	40922	G. W. Barsalo, 1067 St. James St., Montreal.	3 "	30	S. H. Ewing & Sons, Montreal.	
" 18	"	40923	J. O. Poupart, 340 Seigneurs St., Montreal.	3 "	45	Alredie Pure Food Co., Ltd., Montreal.	
" 18	"	40924	U. Bosquet, 892 Notre Dame West, Montreal.	3 "	30	E. W. Gillett Co., Ltd., Toronto.	
" 18	"	40925	" "	3 "	15	Ocean Mills, Montreal.	
" 18	"	40926	Archambault freres, 747 Notre Dame West, Montreal.	3 "	30	J. J. Duffy & Co., Montreal.	
" 19	"	40927	Harris & Co., 158 De Montigny E., Montreal.	3 "	30	Canada Coffee and Spice Mills, Montreal.	
" 19	"	40928	H. Lagace, 252 Amherst St., Montreal.	3 "	25	Windsor Mills, H. L. Co., Ltd., Montreal.	
" 19	"	40929	Thomas Dulude, 486 Lagauchetiere St., Montreal.	3 "	45	Bijou Mills, Montreal.	
" 19	"	40930	J. V. Boudrais, 223 Notre Dame East, Montreal.	3 "	25	Vendor	
DISTRICT OF OTTAWA—							
Oct. 10	Baking Powder.	49031	Alexr. Sibbitt, Carleton Place.	3 tins.	30	Gorman, Eckert & Co., Ltd., London, Ont.	
" 12	"	49032	E. C. Armand, Arnprior.	3 "	45	"	
" 13	"	49033	Mundle & Percival, Kemptville.	3 "	75	Unknown	Unknown
" 14	"	49034	F. W. Forde, Ottawa.	3 "	1 50	The Brodie Mfg. Co., Montreal.	
" 16	"	49035	Jas. E. Lindsay, Almonte.	3 "	30	The J. J. Fanning Co., Ottawa, Ont.	H. N. Bate & Sons, Ltd., Ottawa.
" 20	"	49036	J. T. Kearns, Chesterville.	3 "	1 50	Mayell & Co., Toronto.	

SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis. Carbon Dioxide. Available.	Residual.	Total	Character of Powder.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. C. ROULEAU, INSPECTOR.—*Continued.*						
	p.c.	p.c.	p.c.			
Red Rose.	9·68	1·99	11·67	Alum Phosphate	1188	Below standard (slightly).
Royal	12·47	0·47	12·94	Cream of Tartar	1189	
White Rose	9·52	0·53	10·05	Alum Phosphate	1191	Below standard (slightly).
Ocean	6·32	5·79	12·11	"	1192	Below standard.
J. J. COSTIGAN, INSPECTOR.						
Put up specially for vendor.	8·60	0·30	8·90	Alum Phosphate	10921	Below standard.
Star Brand	12·10	0·20	12·30	"	10922	
Alredie	9·30	1·60	10·90	Cream of Tartar and trace of phosphate.	10923	Below standard (slightly).
Magic	12·50	0·60	13·10	Phosphate.	10924	
Ocean	9·60	2·80	12·40	Alum Phosphate	10925	Below standard (slightly).
Cooks Favourite	10·30	0·80	11·10	"	10926	
Mount Royal	10·80	0·40	11·20	"	10927	
New York.	13·30	0·70	14·00	"	10928	
Crown	7·60	1·60	9·20	"	10929	Below standard.
White Rose	11·30	0·10	11·40	"	10930	
J. A. RICKEY, INSPECTOR.						
Forest City	10·50	0·30	10·80	Alum Phosphate	49031	
Maple Leaf. Mfg. for Vendor.	13·80	0·20	14·00	"	49032	
	10·30	0·60	10·90	Alum and a little phosphate.	49033	
Red Rose. Strong pure and wholesome.	12·90	2·60	15·50	Phosphate	49034	
Fanning's Malt.	15·40	1·10	16·50	Alum	49035	
Art. Guaranteed absolutely pure.	7·30	2·30	9·60	Alum Phosphate	49036	Below Standard.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
							DISTRICT OF OTTAWA—
1911.							
Oct. 25	Baking Powder.	49037	A. E. Rea & Co., Ltd., Ottawa.	3 tins.	30	C. H. Cochrane, Ottawa.	
" 25	" ..	49038	I. Houle, Clarence st., Ottawa.	3 " .	15	W. D. McLaren, Ltd., Hamilton.	C. Major, Ltd., Ottawa.
" 25	" ..	49039	L. Malette, Murray st., Ottawa.	3 " .	27	Litster Pure Food Co., Ltd., Toronto.	
" 25	" ..	49040	P. Lamoureux & Cie., Dalhousie st., Ottawa	3 " .	45	Royal Baking Powder Co., New Jersey.	Provost & Allard, Ottawa.
							DISTRICT OF KINGSTON—
Nov. 1	Baking Powder.	48584	Geo. Gibson, Kingston.	3 tins.	30	Gillett, Ltd., Toronto.	
" 1	" ..	48585	C. H. Pickering, Kingston.	3 " .	30	" ..	
" 2	" ..	48586	M. Nolan, Kingston ..	3 " .	45	Royal Baking Powder	
" 2	" ..	48587	J. Crawford, Kingston.	3 " .	45	F. F. Dalley, Hamilton.	
" 2	" ..	48588	J. Lennon, Kingston .	3 " .	45	Vendor	
" 2	" ..	48589	J. McCulla, Kingston.	3 " .	45	Cleveland's Baking Powder.	
" 2	" ..	48590	M. Purtell, Kingston..	3 " .	30	F. F. Dalley, Hamilton.	
" 2	" ..	48591	J. R. B. Gage, Kingston.	3 " .	45	Gage Bros., Hamilton	
" 2	" ..	48592	W. Powers, Kingston.	3 " .	39	Powers	
" 2	" ..	48593	J. Redden, Kingston .	3 " .	45	Royal Baking Powder	
							DISTRICT OF TORONTO—
Oct. 18	Baking Powder.	47395	D. J. Donovan, Walnut St., Hamilton.	3 pkg.	30	McLarens Ltd., Hamilton.	
" 18	" .	47396	Norman & Co., 97 Main St. West, Hamilton.	3 " .	15	Vendors	
" 20	" .	47397	E. W. Gillett Co. Ltd., Toronto.	3 " .	20	"	
" 20	" .	47398	The White Swan Spice and Cereals, Ltd., Toronto.	3 " .	20	"	
" 24	" .	47399	H. G. Ainslie, Owen Sound.	3 " .	30		Young-Windfield, Ltd., Hamilton.
" 26	" .	47400	Wheeler Bros., Collingwood.	3 " .	30	Litster Pure Food Co., Ltd., Toronto.	
" 27	" .	49301	J. A. Brown, Collingwood.	3 " .	30	" " ..	
" 27	" .	49302	Jas. Chalmers, Collingwood.	3 " .	45		
" 27	" .	49303	Chas. Cheesman, Barrie	3 " .	45	White Swan Spice and Cereal Co., Ltd., Toronto.	
Nov. 2	" .	49304	J. S. Kyle, Oshawa...	3 " .	30	Fodhunter, Mitchell & Co., Ltd., Toronto	Mfrs

SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Carbon Dioxide. Available	Residual.	Total.	Character of Powder.	No. of Sample.	Remarks and opinion of the Chief Analyst.
J. A. RICKEY, INSPECTOR—*Continued.*						
	p. c.	p. c.	p. c.			
Our Own. Mfg. for Vendors.	13·10	0·90	14·00	Alum Phosphate	49037	
Cook's Friend.	10·80	0·50	11·30	Cream of Tartar & a little phosphate	49038	
Thistle. Mfg. for Vendor.	14·90	1·60	16·10	Alum Phosphate..	49039	
Royal. Absolutely pure.	12·40	0·20	12·60	Cream of Tartar..	49040	
JAS. HOGAN, INSPECTOR.						
.. ..	12·20	2·50	14·70	Phosphate	48584	
....	13·00	0·40	13·40	.. ..	48585	
....	11·10	0·30	11·40	Cream of Tartar..	48586	
....	11·10	0·60	11·70	Alum with a little phosphate.	48587	
... .	12·70	0·40	13·10	Alum Phosphate.	48588	
... .	10·30	0·60	10·90	Cream of Tartar .	48589	
....	10·80	0·20	11·00	Alum with a little phosphate.	48590	
. . .. .	12·20	0·60	12·80	Alum Phosphate..	48591	
....	11·20	0·40	11·60	Phosphate & trace of Alum.	48592	
....	11·20	0·40	11·60	Cream of Tartar..	48593	
H. J. DAGER, INSPECTOR.						
'Ocean Wave' .	11·90	1·50	13·40	Alum Phosphate	47395	
'Red Ribbon'	12·80	2·30	15·10	..	47396	
'Magic.' Contains no alum.	11·70	0·20	11·90	Phosphate..	47397	
White Swan. Contains no alum. Guaranteed absolutely pure.	12·20	1·80	14·00	.. ..	47398	
'Mother's Choice'	10·50	1·10	11·60	Phosphate and trace of alum.	47399	
'Wheeler Bros.' Put up for vendors by mfrs.	9·70	0·80	10·50	Alum Phosphate..	47400	Below standard (slightly).
'Pure Food.'..... . .	11·80	0·30	12·10	..	49301	
'Maple Leaf.' Put up expressly for vendors.	11·80	1·76	13·56	.. ..	49302	
Ocean Foam. Perfectly pure. Put up for vendor by mfrs.	11·00	0·70	11·70	.. ..	49303	
White Lily. Quality guaranteed.	10·42	0·87	11·29	Phosphate.... ...	49304	

BULLETIN No. 240—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF WINDSOR—							
1911.							
Oct. 16	Baking Powder.	47805	Chute & Smith, St. Thomas.	3 pkg.	30	E. W. Gillet Co., Toronto	.....
" 16	" .	47807	Moylan & Moylan, St. Thomas.	3 " .	30	Gorman, Eckert & Co., London.	.....
" 16	" .	47810	E. J. Witheford, St. Thomas.	3 " .	30	I. X. L. Spice and Coffee Co., London.	.....
" 16	" .	47811	C. J. Norsworthy, St. Thomas.	3 " .	30	.....	E. Adams & Co., London.
" 17	" .	47815	J. Caron, Ridgetown.	3 3 .	30	E. W. Gillett Co., Ltd., Toronto.	.....
" 18	" .	47828	I. Vandour & Son, Leamington.	3 " .	30	Hamilton Spice and Coffee Co., Hamilton.	.....
" 18	" .	47831	G. M. Sawyer, Leamington.	3 " .	30	E. W. Gillett Co., Ltd., Toronto.	.....
" 18	" .	47835	Robinson Bros., Leamington.	3 " .	30	Todhunter & Mitchell, Toronto.	.....
" 19	" .	47845	A. H. Scarff, Essex...	3 " .	30	Hamilton Spice and Coffee Co.	.....
" 19	" .	47849	Millar & Wigle, Essex.	3 " .	10	Egg-O Baking Co., Hamilton.	.....
DISTRICT OF MANITOBA—							
Oct. 23	Baking Powder.	47428	Blue Ribbon Ltd., Winnipeg.	24 oz..	25	Vendors	.....
" 23	" .	47429	Campbell Bros. & Wilson, Winnipeg.	½ lb ..	Nil.	"	.....
" 23	" .	47430	The Gold Standard Mfg. Co., Winnipeg.	½ " ..	" .	"	.....
" 24	" .	47431	The White Star Mfg. Co., Winnipeg.	½ " ..	" .	"	.....
" 24	" .	47432	The Dyson Co., Winnipeg.	½ " ..	" .	"	.....
" 25	"	47433	McKush & Burbaumer, Winnipeg.	½ " .	10	The White Star Mfg. Co., Winnipeg.	Unknown.....
" 25	" .	47434	Moffett & Douglas, Winnipeg.	½ " ..	25	The Price Baking Co., Chicago,	" .....
" 25	" .	47435	Western Mercantile Co., Ltd., Winnipeg.	½ " .	10	The Gold Standard Mfg. Co., Winnipeg	" .....
" 25	" .	47436	A. J. Kemball, Winnipeg.	½ " ..	15	" .	" .....
" 26	" .	47437	H. Logrenia, Winnipeg	½ " ..	20	The Blackwood Ltd , Winnipeg.	" .....
DISTRICT OF CALGARY—							
Nov. 9	Baking Powder.	44052	Hewitt & Armstrong, Medicine Hat.	3 tins.	75	Price Baking Powder Co., Chicago.	.....
" 9	" .	44053	A. W. Curran, Winnipeg.	3 " .	45	W. A. Jamieson, Coffee Co., Victoria, B C.	.....
" 15	" .	44054	L. T. Mewburn & Co., Ltd., Calgary.	3 " .	25	E. W. Gillett Co., Ltd., Toronto.	.....

SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis. Carbon Dioxide. Available.	Residual.	Total.	Character of Powder.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
JNO. TALBOT, INSPECTOR.	p.c.	p.c.	p.c.			
Magic	11·19	0·56	11·75	Phosphate	47805	
	8·19	0·83	9·02	Alum Phosphate	47807	Below standard.
	12·96	0·41	13·37	"	47810	
Fan	12·66	1·15	13·81	"	47811	
	12·78	0·14	12·92	Phosphate	47815	
Ocean Wave	10·94	2·05	12·99	Alum Phosphate	47825	
	13·70	0·26	13·96	Phosphate	47831	
Todhunter Excelsior	11·23	0·05	11·28	Cream of Tartar	47835	
Ocean Wave	10·38	3·13	13·51	Alum Phosphate	47845	
	14·74	1·96	16·70	"	47849	
A. C. LARIVIERE, INSPECTOR.						
Blue Ribbon	11·47	1·20	12·67	Alum Phosphate	47428	
Royal Shield	11·47	1·80	13·27	"	47429	
Gold Standard	12·65	0·65	13·30	"	47430	
White Star	9·30	2·90	12·20	"	47431	Below standard (slightly).
Red Cross	11·20	2·87	14·07	"	47432	
White Star	10·19	1·11	11·30	"	47433	
Dr. Price's Cream	12·37	0·65	13·02	Cream of Tartar	47434	
Gold Standard	10·44	1·07	12·31	Alum Phosphate	47435	
"	10·36	1·29	11·65	"	47436	
Blackwood	11·88	1·37	13·25	"	47437	
R. W. FLETCHER, INSPECTOR.						
	12·40	0·40	12·80	Cream of Tartar & a little phosphate	44052	
	12·20	1·40	13·60	Alum Phosphate	44053	
	13·10	...	13·10	Phosphate	44054	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF CALGARY—							
1911.							
Nov. 15	Baking Powder.	44055	G. F. & J. Galt, Winnipeg.	2 tins.	25	Blue Ribbon Mfg. Co. Ltd. Winnipeg.	
" 15	"	44056	Campbell Wilson & Horne, Calgary.	3 "	25	E. W. Gillett Co., Ltd., Toronto.	
" 15	"	44057	Georgeson & Co., Ltd., Calgary.	3 "	25	Vendors	
" 16	"	44058	J. A. Nolan, Calgary.	3 "	75	Wm. Pryce's, Chicago U.S.	
" 16	"	44059	Calgary Milling Co. Ltd., Calgary.	3 "	75	H. Stelling & Co., San Francisco, U.S.	
" 16	"	44060	Hudson's Bay Co., Calgary.	3 "	75	The Georgeson Co., Ltd., Calgary.	
" 16	"	44061	S. G. Freeze, Calgary.	3 "	75	"	
DISTRICT OF NELSON—							
Oct. 19	Baking Powder.	48429	Crow's Nest Trading Co., Fernie, B.C.	3 tins.	45	E. W. Gillett Co., Toronto.	
" 19	"	48431	Trites Wood Co., Fernie, B.C.	3 "	30	White Star Mfg. Co., Winnipeg.	
" 19	"	48432	" "	3 "	75	Price Baking Powder Co., Chicago.	
" 19	"	48441	Fernie Co-op. Assocn., Fernie, B.C.	3 "	1 35	E. W. Gillett Co., Toronto.	
" 19	"	48442	" "	3 "	45	Georgeson & Co., Calgary.	
" 27	"	48455	Union Co-op. Assocn., Rossland, B.C.	3 "	1 50	Mayell & Co., Toronto	
" 27	"	48456	" "	3 "	75	Crescent Mfg. Co., Seattle.	
" 27	"	48465	Hunter Bros., Rossland, B.C.	3 "	60	Coldyke B. P. Co., Winnipeg.	
" 27	"	48466	" "	3 "	60	Price B. P. Co., Chicago.	
" 28	"	48482	A. S. Horswill, Nelson, B.C.	3 "	30	Coldyke B. P. Co., Winnipeg.	
DISTRICT OF VANCOUVER—							
Oct. 20	Baking Powder.	38225	Gruchy & Carlow, 2049 Granville st., Vancouver.	16 oz.	25	Eggo Baking P. Co., Regina, Sask.	
" 20	"	38226	London Grocery Co., Fairview Branch, Vancouver.	3 tins.	75	Dr. Price Co., Chicago	
" 20	"	38227	White-Thompson Co., Granville st., Vancouver.	12 oz.	20	Gillett & Co., Toronto	
" 20	"	38228	A. C. Bartig, Granville st., Vancouver.	12 "	20	Pure Gold Co., Toronto.	
" 20	"	38229	A. McFarlane, Granville st., Vancouver.	12 "	25	Coldyke Co., Winnipeg.	

SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Carbon Dioxide. Available	Residual.	Total.	Character of Powder	No. of Sample	Remarks and Opinion of the Chief Analyst.
R. W. FLETCHER, INSPECTOR—*Continued.*						
	p.c.	p.c.	p.c.			
	11·30	0·20	11·50	Alum Phosphate	44055	
	12·60	0·20	12·80	Phosphate	44056	
	12·70	0·80	13·50	Alum Phosphate	44057	
	12·30	0·60	12·90	Cream of Tartar & a little phosphate	44058	
	12·30	1·10	13·40	Cream of Tartar	44059	
	13·60	0·20	13·80	Alum Phosphate	44060	
	14·00	0·60	14·60	"	44061	
THOS. PARKER, INSPECTOR						
	12·50	0·40	12·90	Phosphate	48429	
	10·50	1·10	11·60	Alum Phosphate	48431	
	12·00	0·20	12·20	Cream of Tartar & a little phosphate	48432	
	12·20	0·60	12·80	Cream of Tartar	48441	
	9·60	0·50	10·10	Alum Phosphate	48442	Below standard (slightly)
	10·75	1·20	11·95	"	48455	
	8·10	0·90	9·00	Phosphate and a little alum.	48456	Below standard.
	10·60	0·80	11·40	Alum Phosphate	48465	
	13·00	0·90	13·90	Cream of Tartar & a little phosphate	48466	
	11·50	0·30	11·80	Alum Phosphate	48482	
J. F. POWER, INSPECTOR.						
Guaranteed by Mfrs.	10·64	2·04	12·68	Alum Phosphate	38225	
Made from pure grape cream of tartar, tartaric acid, bicarbonate soda and corn starch.	12·20	0·52	12·72	Cream of Tartar	38226	
Magic, phosphate, bicarbonate soda and starch.	12·37	0·41	12·78	Phosphate	38227	
Fully warranted in every respect.	10·44	0·06	10·5	Cream of Tartar	38228	
	10·75	1·60	12·35	Alum Phosphate	38229	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF VANCOUVER—							
1911.							
Oct. 20	Baking Powder.	38230	Jackson's Grocery, Cedar Cottage, Vancouver.	12 oz..	40	Royal Baking Powder, New York.	
" 20	"	38231	D. A. Finan, Park Drive. Vancouver.	12 " .	20	Empress Mfg. Co., Vancouver.	
" 20	"	38232	T. A. Brewis, Park Drive, Vancouver.	12 " .	25	Blue Ribbon Co., Winnipeg.	
" 20	"	38233	Main's Grocery, Park Drive, Vancouver.	12 " .	25	Unknown.	
" 20	"	38234	Swindell & Banbury, Vancouver.	12 " .	25	White Star Mfg. Co., Winnipeg.	
DISTRICT OF VICTORIA—							
Oct. 25	Baking Powder.	47661	Windsor Grocery Co., Victoria, B.C.	3 pks.	75	The Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 25	"	47662	" " " ..	3 " .	75	" " ..	
" 26	"	47663	The West End Grocery Co., Ltd., Victoria, B.C.	3 " .	75	Nat. Drug and Chem. Co., Montreal.	
" 26	"	47664	" " " ..	3 " .	75	Royal B. P. Co., New Jersey.	
Nov. 9	"	47665	Copas & Young, Victoria, B.C.	3 " .	60	Price B. P. Co., Chicago.	
" 9	"	47666	Wm. B. Hall, Victoria, B.C.	3 " .	75	A. Shilling & Co., San Francisco, Cal.	
" 13	"	47667	Erskine & Co., Victoria, B.C.	3 " .	75	W. A. Jamieson Coffee Co.	
" 13	"	47668	F. E. Plummer, Victoria, B.C.	3 " .	60	Blue Ribbon, Ltd., Winnipeg.	
" 15	"	47669	D. H. Ross & Co., Victoria, B.C.	3 " .	75	Crescent Mfg. Co., Seattle, Wash.	
" 15	"	47670	Harrison & McDonald, Victoria, B.C.	3 " .	75	E. W. Gillett Co., Ltd., Toronto.	

SESSIONAL PAPER No. 14

BAKING POWDERS.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Carbon Dioxide. Available	Residual.	Total.	Character of Powder.	No. of Sample.	Remarks and opinion of the Chief Analyst.
J. F. POWER, INSPECTOR—*Continued.*						
	p. c.	p. c.	p. c.			
Cream of tartar, tartaric acid, bicarbonate of soda and starch.	11·80	0·61	12·41	Cream of Tartar	38229	
	12·35	1·46	13·81	Alum Phosphate	38231	
Always reliable	7·01	1·50	8·51	"	38232	Below standard.
Put up for Main's grocery	7·34	1·71	9·05	"	38233	"
Best in the world	7·27	0·98	8·25	"	38234	"
D. O'SULLIVAN, INSPECTOR.						
Hygienic	11·19	3·36	14·55	Alum Phosphate	47661	
Pioneer, pure cream of tartar baking powder.	11·42	2·14	13·56	Cream of Tartar, but contains both alum and phosphates.	47662	
St. George	8·76	1·30	10·06	Cream of Tartar	47663	Below standard.
Royal	11·94	0·69	12·63	"	47664	
Dr. Price's cream	12·30	0·60	12·90	Cream of Tartar & a little phosphate	47665	
Shilling's best	11·70	1·10	13·10	Cream of Tartar	47666	
Feather light	12·63	0·85	13·48	Alum Phosphate	47667	
Blue Ribbon	7·17	0·98	8·16	"	47668	Below standard.
Crescent	5·87	0·12	5·99	Phosphate with a little alum.	47669	"
Magic	12·87	0·60	13·47	Phosphate	47670	

APPENDIX E.

BULLETIN No. 241—REGISTERED STOCK FEEDS.

OTTAWA, August 23, 1912.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report upon 138 samples purchased as Registered Feeding Stuffs, throughout Canada, in February of this year. There seems to be much and wide-spread misunderstanding of the requirements of the Commercial Feeding Stuffs Act of 1909. It is difficult to comprehend this state of things, which is illustrated as notably by the mistakes made by our food inspectors as in any other way.

Briefly, the requirements of the Act in question are as follows: Feeds for farm stock are either subject to legal inspection, or are permitted to be sold without inspection.

Hay, Straw, Roots, Wet brewers grains; also Oats, Barley, Corn, &c., in the unground state, are not subject to any official inspection. The reason is clear.

These articles are, from their nature, as readily judged in regard to quality, by the ordinary purchaser as they could be by a Government Official.

All other feeds are subject to inspection for the equally intelligible reason, that their value is not readily, or certainly appreciable to the purchaser.

Indeed, the only way in which the superiority of one article of Bran or Chop feed over another article of like species can be found out, without chemical analysis, is by actually feeding the material and observing results.

Feeds which are subject to inspection are again divided into two classes, viz.: those which may be sold without registration and those which must be registered before being legally offered for sale.

Bran, Shorts (Middlings) and Chop feeds, are not required to bear any registration number, or any guaranty of their nutritive value. This is because the terms Bran, Shorts and Chop feeds, are legally defined under section 26 of the Adulteration Act.

The definitions of these feeds are published under Grain Standards, as Regulation G. 968.

The feeds in question are required to possess the subjoined percentage values.

	Proteids.	Fat.	Fibre.
	(Min.)	(Min.)	(Max.)
Bran	14	3	10
Shorts (Middlings)	15	4	8
Chop Feed	10	2	10

The purchaser of any one of these feeds is assured of obtaining a nutritive value at least equal to the values above given.

There is however nothing in the Act which prevents a manufacturer of Bran, Shorts or Chop, from registering his product, and from guaranteeing a higher value for it than the minimum value required by the Act. Should a manufacturer of Bran, &c., elect to register and to guarantee higher value than the minimum which the Act requires for such class of feed, it is incumbent upon such manufacturer to live up to the guarantee set by himself.

If for example, he chooses to warrant his Bran as containing 16 per cent proteids, and 5 per cent fat, but puts on the market an article containing only 14 per cent proteids and 3 per cent fat, such article will be adulterated, under the Act, although it meets the minimum requirements for legal Bran. Section 15 of the Act provides a penalty for failure to meet the guaranteed values.

All feeds other than those described above, must be registered before being offered for sale.

The registration number must be affixed to every package offered for sale, and constitutes identification of the brand. (Section 7). A penalty of not more than fifty dollars for a first offence is provided for violation of this condition. (Section 15.)

Every registration number corresponds to a definite brand of feed, whose minimum value in nutrient matter is guaranteed by the manufacturer and is on file in this Department.

The guaranteed value must also appear on every package offered for sale. (Section 7, Schedule A.)

The purchaser knows what value he is getting when he buys a registered feed.

It is the duty of this department to inspect all feeds on the market, excepting such as are specifically exempt from inspection. (Section 12.)

Instructions were issued to our inspectors to collect registered feeds only. The response shows as follows:

Cattle medicines obtained	41	samples.
Feeds not registered, and not required to be registered	9	"
Feeds not registered, but should be registered	1	"
Registered feeds	87	"
Total	138	"

There is some excuse for the collection of so many samples of cattle medicines, inasmuch as the term feeding stuff is defined in Section 2 of the Act to include "feeds claimed to possess medicinal as well as nutritive properties." These samples will form the subject of a separate report.

The present report therefore deals with 97 samples only and these may be classified as follows:

(1) Registered feeding stuffs	
Meeting guarantee	64
Below guarantee	22
Doubtful (imperfect report)	1
Total	87
(2) Unregistered—illegal	1
" and legal	
Meeting standard requirements	5
Below standard requirements	4
Total	97

The following table gives a synopsis of 22 registered feeds which fail to meet the guarantee under which they are sold.

No.	—	Below requirements in.			Remarks.
		Proteids	Fat.	Fibre.	
45631	Bran	1·99	1·09		
45636	Middlings	2·08	0·83		
45642	Calf meal	9·20			Above guarantee in fat 6·3.
39070	Kamoat	2·16	0·44		
39073	Ox Meal	1·70			
39078	Eureka	0·71	1·61		
40841	Bran	2·02	0·74		
40843	Kamoat	1·69	0·42		
40846	Kremo Feed	2·02	0 54		
40848	Ox Meal	1·58			
50173	Crescent	1·08	1 36		
50174	Sugar and Flaxseed	2·58			
50179	Oil cake	4·08			
50181	Calf meal	7·73			Above in fat 5·46.
50185	Bibby's Cream Equivalent		2·31		Above in proteids 2·32.
50188	Oil cake		1·23		Excess in proteids 0·95.
49552	Sehumaeher		1·65		Excess in Proteids.
49373	Maize meal	2·20	0 54		
49381	Gluten Feed	1·96			Excess in fat 1·21.
49386	Dairy Feed	3·53	1·15	5·6	Excess Fibre.
49640	Poultry bone		3 36		
38316	Stock feed	4·22	1·62		

Section 15 of the Act provides that a deficiency of one per cent of the proteids or fat shall not be considered evidence of fraudulent intent, if the total value of the feed, in nutritive material, is substantially equivalent to the guaranteed statement of the manufacturer.

All of the above cases show deficiencies greater than one per cent, in proteids or in fat, so that under the terms of the Act they are adulterated.

In most instances, however, the departure from legal allowance is small, and in some cases is nearly, if not quite balanced by excess of one or other component.

In cases where the manufacturer bases his guarantee values on the analysis furnished to him by the analyst he employs, it is important that he assure himself of the typical character of the sample which he submits for analysis.

If he submit several samples, instead of a single one the average result of analysis will be more likely truly to represent his product than if he trusts to a single test.

I am convinced that some of the differences above recorded between the guaranteed and the actual analysis are unfavourable to the manufacturer owing to his having described his product upon the result of a single test case, the sample submitted being, perhaps, rather better than his average output.

In view of this consideration and of the fact that this is a first inspection of registered feeds under the Act of 1909, I am inclined to recommend leniency in the enforcement of the penalties provided under Section 15.

Ten samples herein reported are not registered. One of these, No. 48075, sold as Cotton Seed Meal, can not be legally sold without being registered. From correspondence with the Rev. D. B. Cohoe of Burgessville, (Departmental Letters 87715 and 87745) it is explained that this was a sample of a personal consignment passed over to a neighbour, without profit; and cannot properly be regarded as a sale.

Of the other samples, five meet the requirements under which they are sold as Middlings or Chop feed. The following samples fail to meet legal requirements.

No. 45639—Sold as *Feed Flour.*

Below Standard for "Middlings"—
Proteids . . . . . 1.35 p.c.
Fat . . . . . 1.44 p.c.
Above Standard in Fibre . . . . . 6.70 p.c.

It is uncertain whether the term "Feed Flour" may be taken as equivalent to middlings. It would be safer to register or guarantee articles of this kind. The actual feeding value is so nearly equal to that of middlings, that the article may pass inspection, as doubtfully classified.

No. 50183—Sold as Rex Sugar Feed,
Below Standard for chop feed—
Proteids . . . . . 0.68 p.c.
Fat . . . . . 1.06 p.c.
Above Standard in Fibre. . . . . 5.3 p.c.
It is probable that this article should be registered. It is so nearly the value of Chop feed that it may pass.

No. 49367. Sold as Oat Feed.
Below Standard as Chop Feed—
Proteids. . . . . 6.76 p.c.
Fat . . . . . 0.87 p.c.
Excess Fibre . . . . . 18.60 p.c.
This article has so little nutritive value that it must be declared adulterated.

No. 49629. Sold as Stock Feed, is below requirements for Chop Feed as follows:—
Proteids . . . . . 7.23 p.c.
Fat . . . . . 1.62 p.c.
Excess Fibre . . . . . 25.20 p.c.
This article is to be judged adulterated.
I beg to recommend publication of this report as Bulletin No. 241.

I have the honour to be, sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1912.							
Feb. 9	Stock Feed....	47051	Wentzells Ltd., Halifax, N.S.	1 pkg.	50	International Stock Food Co., Toronto.	Manufacturers..
" 21	" ..	47052	Halifax Seed Co..... ..	1 " .	50	Pratt Food Co., Toronto.	" ..
" 21	" ..	47053	" "	1 " .	50	W. A. Jenkins Co., London, Ont.	" ..
DISTRICT OF PRINCE EDWARD ISLAND—							
Feb. 7	Calf Meal	46186	Auld Bros., Charlottetown, P.E.I.	3 lbs..	20	The Blatchford Calf Meal Factory, Wankegan Ill.	.....
" 7	Molassine.....	46187	" " .	3 " .	10	The Molassine Co., Ltd., England.	....
" 21	Herbageum...	46188	Mathew & McLean, Ltd., Charlottetown, P.E.I.	4 " .	50	The Beaver Mfg. Co., Galt, Ont.	.....
DISTRICT OF NEW BRUNSWICK							
eb. 17	Bran.....	45631	C. H. Peters & Sons, Ltd., St. John, N.B.	3 lbs..	15	Western Canada Flour Mills. Winnipeg.	.....
" 17	Middlings	45632	" "	3 " .	15	"	....
" 19	"	47633	P. Nase & Son, St. John, N.B.	3 " .	10	Maple Leaf Milling Co., Canada.	.. ..
19	Banner.	45634	" " .	3 " .	10	Quaker Oats Co., Peterboro', Ont.	.....
19	Feed Flour....	45635	" " .	3 " .	10	Western Canada Flour Mills Co., Winnipeg.	.....
" 21	Middlings	45636	James Collins, St. John, N.B	3 " .	10	"	....
" 21	Feed Flour...	45637	W. J. Alexander, St. John N.B.	3 " .	10	Maple Leaf Milling Co., Canada.	.....
21	Geneva Feed..	45638	James Stephenson & Son, St. John, N.B.	3 " .	15	Western Canada Flour Mills Co., Winnipeg.	....

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis. Proteids	Fat.	Fibre.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.						
		p.c.	p.c.	p.c.		
					47051	Is a medicine, not a food.
		Mineral matter 22·2 p.c.			47052	Mineral matter 22·2 p.c. Is not a stock food, but a medicine.
		Mineral matter 11·90 p.c.			47053	Is a medicine, not a food.
WM. A. WEEKS, INSPECTOR.						
	As guaranteed	25·00	5·0	5·0	46186	Meets guarantee.
	As found.	25·02	5·36	5·7		
	As guaranteed	7·00	4·05	7·0	46187	
	As found.	10·76	0·19	6·1		
		Mineral matter 15·85 p.c.			46188	Is a medicine, not a food.
J. C. FERGUSON, INSPECTOR.						
Reg. No. 66	As guaranteed	16·82	5·5	10·86	45631	1·99 per cent deficiency in proteids, as per guarantee. Conforms to definition of *Bran*.
" 61	As found.	14·83	4·41	9·7		
	As guaranteed	18·36	6·04	7·51	45632	Up to guarantee, and conforms to definition of *middlings*.
"Rex Brand." No Reg. Number.	As found.	17·85	5·87	6·60		
	As found.	16·71	5·56	7·7	45633	Sold as *middlings*, and conforms to legal requirements. Not registered.
Reg. No. 10	As guaranteed	8·5	3·7	9·0	45634	Up to guarantee.
	As found.	9·80	3·2	8·0		
" 65	As guaranteed	16·23	3·9	3·29	45635	Up to guarantee, and correct as *middlings*.
	As found.	17·37	4·36	3·60		
" 66	As guaranteed.	16·82	5·5	10·86	45636	2·08 deficiency in proteids; but conforms to requirements for *middlings*.
	As found.	14·74	4·67	10·00		
"Maple Leaf." No Reg. Number.	As found.	16·45	4·4	5·50	45637	Not registered. Conforms to requirements for *middlings*.
Reg. No. 61	As guaranteed	18·36	6·04	7·51	45638	Meets guarantee.
	As found.	18·25	6·48	6·2		

BULLETIN No. 241—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1912.							
Feb. 27	Feed Flour. .	45639	P. F. McKenna, St. Stephen, N B.	3 pkgs	15	Canada Cereal M. Co., Toronto.	. . . . .
Mar. 5	Geneva Feed..	45640	M. E. Doohan, Fredericton, N.B.	3 lbs..	10	Campbell Flour M. Co., W., Toronto	. . . . .
" 5	Model Feed . .	45641	A. H. Vanwart, Fredericton, N.B.	3 " .	13	Lake of the Woods M. Co. Montreal	. . . . .
" 7	Calf meal.	45642	J. W. Niles, Andover, N.B	3 " .	25	InternationalStock Food Co., Ltd., Toronto.	. . . . .
" 8	Puritan Chop.	45643	J. W. McPhail, Perth, N.B.	3 " .	10	Ogilvie Flour M. Ltd., Montreal.	. . . . .
" 12	Hercules.	45644	W. B. McKay, Ltd.. Sussex, N.B.	3 " .	10	" .	. . . . .
DISTRICT OF QUEBEC—							
Feb. 7	Stock Feed. .	37388	Arthur Drolet, 714 Rue St. Valier, Quebec.	3 lbs..	75	InternationalStock Food Co. Toronto	P. T. Legare, Quebec.
" 9	" . .	37389	Hamel & Bedard, 728 Rue St. Valier, Quebec.	3 " .	75	" .	" .
" 14	" . .	37390	Jos. Masson, 808 Rue St. Valier, Quebec.	3 " .	30	Davis & Lawrence, Montreal.	Mfrs. . . . .
" 14	" . .	37391	" " .	3 " .	50	Nyals, New York.	" . . . . .
" 14	" . .	37392	" " .	3 " .	45	L. E. Martel, Quebec.	Mfr . . . . .
" 14	" . .	37393	" " .	3 "	75	Toronto Pharmacal	Mfrs. . . . .
" 14	" . .	37394	" " .	3 " .	35	Dr. Ed. Morin. . . .	Mfr. . . . .
" 14	" . .	37395	Hamel & Bedard, 728 Rue St. Valier, Quebec.	3 " .	105	Jos. Julien, Pont Rouge.	W. Brunet & Cie, Quebec.
" 14	" . .	37396	P. Reneaud, 597 Rue St. Valier, Que.	3 " .	105	Pratt Food.	A. E. Vallerand, Quebec.
DISTRICT OF ST. HYACINTHE—							
Feb. 19	Quinquinol. . .	39057	Berthianme & Lanoue, Farnham.	1 can.	50	Am. Pure Food Co. Montreal.	. . . . .
" 19	International..	39058	J. E. Baillargeon, Farnham.	3 pkgs	25	InternationalStock Food Co. Toronto	. . . . .
" 21	Pratts.	39059	Vaughan Bros., Magog. . .	1 " .	50	Pratts Food Co., of Canada, Ltd., Toronto.	. . . . .
" 21	Anglo-Saxon..	39060	B. E. Goyette, Magog . . .	1 " .	25	Nat. Drug & Chem. Co., Montreal.	. . . . .
" 27	Interprovincial	39061	T. Ledoux, St. Guillaume	1 " .	25	The Interprovincial S. F. Co., St. Basile.	. . . . .
" 27	Vinks.	39062	E. Sylvestre, St. Guillaume	1 " .	25	The Joliette Chem. Co. Ltd., Joliette	. . . . .

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion).	Analysis of Sample.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat.	Fibre.		
Concluded.						
		p. c.	p. c	p. c		
No. Reg. number. . . .	As found.	13·65	2·56	1·30	45639	No registration number. Below standard for middlings.
. . . . .	As found.	9·93	4·06	8·00	45640	Conforms to requirements for Chop Feed.
Reg. No. 19	As guaranteed	11·0	3·6	11·5	45641	Meets guarantee, and conforms to requirements for chop feed.
	As found.	10·41	3·16	9·6		
" 106	As guaranteed	25·0	1·0	10·0	45642	9·20 per cent deficiency in proteids; 6·3 above guarantee in fat.
	As found.	15·8	10·3	8·9		
" 104	As guaranteed	9·5	1·0	6·5	45643	Meets guarantee; and conforms to requirements for chop feed.
	As found.	10·41	4·84	7·5		
Pure Corn, Oats & Barley. Registered.	As found.	9·97	4·78	6·7	45644	Sold as chop feed. Meets standard requirements. No guarantee.

F. X. W. E. BELAND, INSPECTOR.

. . . . .	.	Mineral matter 18·25p.c.	37388	Is a medicine—not a food.
. . . . .	. . . . .	Mineral matter 5·25 p.c.	37389	" "
		Mineral matter 9·10 .	37390	Is a condition powder, and sold as such. Not a food.
. . . . .		Mineral matter 20·4 p.c.	37391	Is a condition powder.
. . . . .	. .	Mineral matter 20·3 p.c.	37392	"
. . . .	.	Mineral matter 26·20p.c.	31393	" "
. . . . .	. . . . .	. . . . .	37394	Is a medicine—not a food.
. .	. . .	Mineral matter 30·0 p.c.	37395	Is a condition powder.
. . .	. .	. . .	37396	Is a medicine.

J. C. ROULEAU, INSPECTOR.

No. Reg. Number	. . . .	. . . .	39057	Is a medicine
"	. . . .	. . . .	39058	"
"	. . . . .	. . . .	39059	"
"	. . . . .	. . . .	39060	"
"	. . . .	. . . .	39061	"
. . . .	. . . . .	. . . . .	39062	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
			DISTRICT OF ST. HYACINTHE—				
1912.							
Feb. 27	Perfection	39063	G. E. Aubin, Actonvale	1 pkg.	50	D. Frechette, St. Hyacinthe.	
" 27	Acme	39064	A. Chicoine, Actonvale	1	25	Frazier Norton & Co., Cookshire.	
" 28	Hackney	39065	O. T. Piche, Drummondville.	1 "	50	The Hackney S. Food Co, Ltd., Toronto.	
" 28	La Cadienne	39066	T. A. Bourgault, Drummondville.	1 "	25	J. T. Herbert, Drummondville.	
" 28	Purina	39067	A. Birtz, Drummondville.	1 "	40		Stock of J. N. Potvin, D'Ville
" 28	Herbageum	39068	R. Cardin, Drummondville.	1 "	50	The Beaver Mfg Co., Ltd., Galt.	
Mar. 4	Regal	39069	Berthiaume & Lanoue, Farnham.	3 lbs.		Ogilvie Milling Co.	
" 4	Kamoat	39070	" "	3 "		Lake of the Woods Milling Co.	
" 5	Bran	39071	Beaudry & Beauchemin, Granby.	3 "		W. C. F. M. Co., Ltd.	
" 5	Schumacher	39072	" "	3 "		The Quaker Oats Co., Peterboro.	
" 6	Ox Meal	39073	J. S. Maguire, Waterloo, P.Q.	3 lbs.	6	Lake of the Woods Milling Co.	
" 6	Bibby's Cream Equivalent.	39074	A. E. Ralston, Knowlton	3 "	14	J. Bibby & Sons, Liverpool.	
" 7	Banner	39075	A. Oliver, Cowansville	3 "		The Quaker Oats Co., Peterboro.	
" 7	Middlings	39076	" "	3 "		West. Canada F. M. Co., Ltd.	
" 7	Victor Feed	39077	J. O. Ostigny, Adamsville	3 "		The Quaker Oats Co., Peterboro.	
" 13	Eureka	39078	Laperriere & fils, Pierreville.	3 "		Ogilvie Milling Co.	
" 20	Calf Meal	39079	W. K. Mackenzie, Richmond, P.Q.	3 "		The Blatchford Calf Meal Factory, Wankegan, Ill.	
" 20	Pioneer Cotton Seed Meal	39080	D. Taylor, Richmond, P.Q.	3 "		J. E. Soper & Co., Roston.	
			DISTRICT OF MONTREAL—				
Mar. 10	Bran	40841	T. Longtin, Valleyfield, P.Q.	3 lbs.	10	West. Canada F. Mills Co. Ltd.	
" 13	Oxmeal	40842	J. P. Lebel, Commissioner St., Montreal.	3 "	8	Lake of the Woods Milling Co., Ltd.	
" 13	Kamoat	40843	" "	3 "	5	"	
" 13	Feed Flour	40844	" "	3 "	7	West Canada F. M. Co., Ltd.	
" 13	Shorts	40845	" "	3 "	5	"	

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis. Proteids	Fat.	Fibre.	No. of Sample.	Remarks and Opinion o the Chief Analyst.
Concluded.						
		p.c	p.c.	p c.		
No. Reg. Number					39063	Is a medicine. Labelled condition powder.
"					39064	Is a medicine.
"					39065	"
"					39066	"
"					30067	"
"					39068	"
Moulee Melange. No reg. number found on bag.	As guaranteed	9 0	1 25	9 0	39069	Meets guarantee.
	As found.	9 65	4 46	8 9		
Reg. No. 50	As guaranteed	11 0	2 5	16 0	39070	2·16 per cent deficiency in proteids. Adulterated.
	As found.	8 84	2 06	15·9		
" 66	As guaranteed	16 82	5 50	10 86	39071	Meets guarantee; also requirements for bran.
	As found.	15 75	4 69	9 9		
" 13	As guaranteed	10·5	4 6	10 5	39072	Meets guarantee.
	As found.	9 88	3 0	10 4		
" 51	As guaranteed	16·5	3 2	7·6	39073	1 70 per cent deficiency in proteids.
	As found.	14 80	3 36	5·1		
" 82	As guaranteed	14 0	14 0	7 0	39074	Meets guarantee.
	As found.	15 66	14 26	5 6		
" 16	As guaranteed	8 5	3·5	9 0	39075	"
	As found.	8·72	3 20	8 3		
" 68	As guaranteed	16 73	4 39	5 2	39076	Meets guarantee; also requirements for middlings.
	As found.	16·06	4 48	4 2		
" 14	As guaranteed	8 0	3·5	12 0	39077	Meets guarantee.
	As found.	8 48	3 4	9 5		
" 102	As guaranteed	9 5	1 5	13·5	39078	1 6 per cent deficiency in fat.
	As found.	8 79	2·89	13·8		
Reg. No. not shown on bags.	As guaranteed	25 0	5 0	5 0	39079	Meets guarantee.
	As found.	25·80	1 86	6 5		
Guaranteed Analysis stamped on card but no reg. number to be found.	As guaranteed	1 0	7 0	10 0	39080	"
	As found.	11·14	7 96	8·8		

J. J. COSTIGAN, INSPECTOR.

Reg. No. 66	As guaranteed	16 82	5·5	10·86	40841	2 02 per cent deficiency in proteids; meets legal requirements for bran.
	As found.	14·80	4·76	9·7		
" 51	As guaranteed	16 5	3·20	7 60	40842	Meets guarantee.
	As found.	15 66	3·38	5 2		
" 50	As guaranteed	14·0	2 5	16·0	40843	1·69 per cent deficiency in proteids.
	As found.	9 31	2 08	15·7		
" 65	As guaranteed	16·23	3·90	3·29	40844	Meets guarantee.
	As found.	15 66	2·88	2·7		
" 63	As guaranteed	18·38	6·02	7·99	40845	Meets guarantee; also legal requirements for shorts
	As found.	17·98	5·2	7 0		

BULLETIN No. 241—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1912.							
Mar. 13	Kremo Feed.	40846	W. C. F. Mills Co., Ltd., Montreal.	3 lbs.	...	Vendors	
" 13	Kamoat	40847	Lake of the Woods Milling Co., Ltd., Montreal	3 "	....	"	
" 13	Ox Meal	40848	Lake of the Woods M. Co. Ltd., Montreal.	3 lbs.	....	"	
" 13	Canadian Concentrated Veg. Stock Feed.	40849	Aime Guertin, Notre Dame St. E., Montreal.	3 "	....	Vendor	
" 14	MolassineMeal	40850	Andrew Watson, Place Yonville, Montreal.	3 "	...	Molassine Co., Ltd. London, Eng.	
DISTRICT OF OTTAWA—							
Feb. 5	Banner	50171	W. H. Poole, Smith's Falls	5 lbs.	10	The Quaker Oats Co., Peterboro.	Mfrs
" 5	Victor	50172	" "	5 "	10	"	"
" 5	Crescent	50173	" "	5 "	10	The Chisholm M. Co., Toronto.	"
" 5	Sugar & Flaxseed.	50174	A. May, Smith's Falls	3 "	18	Blatchford Calf Meal Factory, Wankegan, Ill.	"
" 5	Calf Meal	50175	" "	3 "	18	"	"
" 6	Herbageum	50176	J. W. McKay, Ottawa	4 "	60	The Beaver Mfg. Co., Galt, Ont.	"
" 6	All Grain	50177	" "	3 "	5	W. R. Cummings, Ottawa.	"
" 6	Caldwell's Molasses Meal.	50178	" "	3 "	9	The Caldwell Feed Co., Ltd., Dundas, Ont.	"
" 6	New Process Oil Cake.	50179	" "	3 "	9	J. & J. Livingston, Baden, Ont.	K. McDonald & Sons, Ottawa.
" 6	Pioneer Cotton Seed Meal.	50180	" "	3 "	6	J. E. Soper Co., Boston.	W. R. Cummings Ottawa.
" 6	International	50181	" "	3 pkgs	75	InternationalStock Food Co., Minneapolis.	Mfrs
" 7	Ruby Feed	50182	Tilton & Graham, Cornwall.	3 lbs.	5	Canada C. & M. Co., Lindsay.	"
" 7	Rex Sugar Feed.	50183	Jno. F. Jarvo, Cornwall	3 lbs.	30	The Rex Sugar F. Co., Weston, Ont.	"
" 7	Calf Meal	50184	D. McDonald, Cornwall	3 "	15	InternationalStock Food Co., Toronto.	"
" 8	Bibby's Cream Equivalent.	50185	W. A. Blyth, Ottawa	3 "	15	J. Bibby & Son, Liverpool, Eng.	W. Rennie & Co. Toronto.
" 16	Maize Gluten Meal (Jersey Brand.)	50186	J. A. Forward, Ottawa	3 "	15	St. Lawrence Starch Co., Port Credit, Ont.	W. H. Dwyer, Ottawa, Ont.
" 13	Gluten Meal	50187	E. J. McGarry, Renfrew	5 "	20	Edwardsburg Starch Co., Cardinal.	Mfrs

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Opinion (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis. Proteids	Fat.	Fibre.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.						
		p.c	p.c	p.c		
Reg. No. 74	As guaranteed	11·56	2·16	16·0	40846	2·02 per cent deficiency in proteids.
	As found.	9·54	1·62	16·3		
" 50	As guaranteed	11·0	2·5	16·0	46847	Meets guarantee.
	As found.	11·16	1·86	11·0		
" 51	As guaranteed	16·5	3·20	7·50	40848	1·58 per cent deficiency in proteids.
	As found.	14·92	3·76	5·6		
" 56	As guaranteed	25·0	6·25	2·0	40849	Meets guarantee
	As found.	23·80	5·70	1·9		
" 133	As guaranteed	7·0	0·05	7·0	40850	
	As found.	11·59	0·20	6·5		
J. A. RICKEY, INSPECTOR						
Reg. No. 16	As guaranteed	8·5	3·5	9·0	50171	Meets guarantee.
	As found.	8·72	3·0	8·6		
No. Reg. number nor analysis on bags.	As guaranteed	8·0	3·5	12·0	50172	
	As found.	7·61	3·17	11·6		
Reg. No. 84	As guaranteed	9·0	5·0	20·0	50173	1·08 per cent deficiency in proteids; 1·36 deficiency in fat.
	As found.	7·92	3·61	16·1		
No. Reg. No. on bags.	As guaranteed	27·0	10·0	6·0	50174	2·58 per cent deficiency in proteids.
	As found.	24·42	9·94	7·0		
" "	As guaranteed	25·0	5·0	5·5	50175	Meets guarantee.
	As found.	29·24	5·25	6·2		
No Reg. No. nor analysis on bags.					50176	Is a medicine, not a food.
" "	As found.	11·68	4·04	10·4	50177	Meets requirements for Chop Feed
Reg. No. 124	As guaranteed	1·61	0·81	2·71	50178	Meets guarantee.
	As found.	1·81	0·18	4·5		
No Reg. No. nor analysis on bags.	As guaranteed	37·12	8·0	6·53	50179	1·08 per cent deficiency in proteids.
	As found.	33·04	7·80	7·5		
No Reg. No. on bags.	As guaranteed	41·0	7·0	10·0	50180	Meets guarantee.
	As found.	41·56	7·12	9·2		
No analysis nor Reg No. on bags.					50181	Is a medicine, not a food.
Reg. No. 115	As guaranteed	8·31	2·66	19·64	50182	Meets guarantee.
	As found.	8·01	2·03	16·1		
No analysis nor Reg. No. on bags.	As found.	9·32	0·91	4·7	50183	Not registered. Sale Illegal.
No Reg. No. on bags.	As guaranteed	24·0	5·0	10·0	50184	7·73 per cent deficiency in proteids; 5·46 excess fat.
	As found.	16·27	10·46	9·1		
No analysis nor Reg. No. on bags.	As guaranteed	14·0	14·0	7·0	50185	2·31 per cent deficiency in fat.
	As found.	16·32	11·69	6·0		
Reg. No. 31	As guaranteed	18·0	3·0	6·0	50186	Meets guarantee.
	As found.	18·29	1·97	5·6		
Bags registered No. 53 52 is No. Reg. with Dept.	As guaranteed	23·0	3·0	6·0	50187	"
	As found.	30·02	2·85	1·1		

BULLETIN No. 241—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of the Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF OTTAWA—				
1912.							
Feb. 16	Pure Oil Cake Meal.	50188	J. A. Forward, Ottawa...	3 lbs..	15	St. Lawrence Starch Co., Port Credit, Ont.	W. H. Dwyer, Ottawa.
" 16	Barley Feed..	50189	Ogilvie F. M. Co..... ..	3 " .	15	Vendors.....	....
			DISTRICT OF KINGSTON—				
Feb. 5	Royal Purple..	49551	J. McLeod, Kingston....	3 lbs..	100	W. A. Jenkins, London, Ont.	....
" 5	Schumacher ..	49552	W. G. Peters, Kingston..	3 "	10	Quaker Oats Co., Peterboro.	. ...
" 8	" ..	49555	Quaker Oats Co., Peterboro.	3 " .	10	....	.....
" 8	Banner.....	49556	" " .	3 " .	10	.....	....
" 8	Victor.. . ..	49557	" " .	3 " .	10	. . ..	....
" 8	Molac (Horse)	49558	" " .	3 " .	10	... .	.....
" 8	" (Dairy)	49559	" " .	3 " .	10	....	....
			DISTRICT OF TORONTO—				
Feb. 6	Reg. Stock Feed.	49321	The Caldwell Feed Co., Ltd., Dundas.	3 lbs..	5	Vendors.....	....
" 7	Oat Feed. ..	49367	Hayes & Ryan, Market Square, Hamilton.	3 " .	5	Canada Cereal & M. Co., Canada.	....
" 7	Victor.....	49368	J. Penfold, 96 John St., South, Hamilton.	3 " .	10	The Quaker Oats Co., Peterboro.	..... .
" 7	Star Poultry Meal.	49369	The Jas. Dunlop Co. Ltd., 127 John St. South, Hamilton.	3 " .	5	Vendors	... .
" 7	Alert Mixed Chop.	49370	" " .	3 " .	5	"	.....
" 8	Schumacher ..	49371	W. Pringle & Son, 280 York St., Hamilton.	3 "	5	The Quaker Oats Co., Peterboro.	....
" 12	Crescent	49372	The Chisholm Milling Co. Ltd., Toronto.	3 "	5	Vendors.....	.. ..
" 13	'Jersey' Brand Maize Gluten Meal.	49373	St. Lawrence Starch Co., Ltd , Port Credit.	3 " .	5	"	.....
" 13	Pure Oil Cake Meal.	49374	" " .	3 " .	5	"	.....
" 14	Horse Food...	49375	Faramel Ltd., 222 Dupont St., Toronto.	3 "	5	" ...,...	....
" 14	Cattle Food...	49376	" " .	3 " .	15	"	.. ..
" 14	Molassine Meal	49377	F. Greenway, 1239 Bloor St., West, Toronto.	3 " .	15	"	A. Wilson, Agent Toronto.

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis. Proteids	Fat.	Fibre.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.						
		p. c.	p. c.	p. c.		
Reg. No. 32.	As guaranteed	20·0	11·0	8·0	50188	Deficiency of 1·23 per cent of fat.
	As found.	20·95	12·77	7·5		
No analysis nor Reg. No. on bags.	As guaranteed	10·0	2·5	8·5	50189	Meets guarantee.
	As found.	12·31	2·10	5·6		
JAS. HOGAN, INSPECTOR.						
Reg. No. 50 under P. or P. Act					1955	Is a medicine, not a food.
Reg. No. 13	As guaranteed	10·5	4·0	10·5	4 552	Deficiency of 1·65 per cent fat.
	As found.	10·10	2·35	9·5		
" 13	As guaranteed	10·5	4·0	10·5	49555	Meets guarantee.
	As found.	9·32	2·96	10·4		
" 16	As guaranteed	8·5	3·5	9·0	49556	"
	As found.	8·23	2·88	8·9		
" 14	As guaranteed	8·0	3·5	12·0	49557	"
	As found.	7·79	2·6	11·7		
" 15	As guaranteed	10·0	3·5	12·0	19558	"
	As found	11·27	2·58	12·1		
" 17	As guaranteed	15·0	3·5	12·0	49559	"
	As found.	15·01	3·71	10·8		
H. J. DAGER, INSPECTOR.						
	As guaranteed	4·6	0·81	2·71	19321	Up to guarantee.
	As found.	5·36	0·20	4·5		
Bags not Reg	As found.	3·21	1·13	28·6	49367	Not registered and of very low value. If sold as Chop Feed is adulterated under the Act.
Reg. No. 11	As guaranteed	8·0	3·5	12·0	1·368	Up to guarantee.
	As found.	8·53	2·96	10·4		
" 80	As guaranteed	12·93	3·01	10·11	49369	"
	As found.	20·06	4·29	7·4		
" 79	As guaranteed	10·38	4·17	10·77	49370	Up to guarantee; also meets requirements for chop feed.
	As found.	12·99	5·23	6·3		
" 13	As guaranteed	10·5	4·0	10·5	49371	Up to guarantee.
	As found.	11·11	3·09	10·5		
" 81	As guaranteed	9·0	5·0	20·0	49372	"
	As found.	9·76	4·59	15·1		
" 31	As guaranteed	18·0	3·0	6·0	49373	2·20 per cent deficiency in proteids.
	As found.	15·8	2·46	5·8		
" 32	As guaranteed	20·0	11·0	8·0	49374	Up to guarantee.
	As found.	19·91	14·50	8·		
" 60	As guaranteed	11·60	5·08	9·1	49375	Up to guarantee.
	As found.	10·72	4·45	7·2		
" 61	As guaranteed	13·03	4·16	7·64	49376	"
	As found.	12·12	3·25	6·0		
No. Reg. number on bags.	As guaranteed	7·0	0·05	7·0	19377	"
	As found.	9·71	0·16	6·0		

BULLETIN No. 241—

Date of Collection.	Analysis of Sample.	No. of Sample.	Name and Address of the Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1912.							
Feb. 15	Blatchford's Calf Meal.	49378	W. H. Odell, Weston	3 lbs.	15	J. W. Barwell, Wankegan, Ill.	
" 15	Blatchford's Sugar & Flax-seed.	49379	" "	3 "	15	"	
" 16	Ruby Chop	49380	Jas. Reynolds, Aurora	3 "	5	Canada Cereal & M. Co., Lindsay	
" 16	Gluten Feed	49381	Stiver Bros., Aurora	3 "	5	The Brantford Starch Works, Ltd., Brantford.	
" 19	Bibby's Cream Equivalent.	49382	S. F. M. O'Flynn & Son, Shelburne.	3 lbs.	15	Bibby & Sons, Liverpool.	
" 28	Dried Brewers (Pro Fat) Grains.	49383	Farmers Feed Co., Ltd., 108 Don Esplanade, Toronto.	3 "	5	Vendors	
" 28	Malted Corn	49384	" "	3 "	5	"	
" 29	Molac	49385	Crampsey & Kelly 778 Dovercourt St., Toronto	3 "	5	The Quaker Oats Co., Peterboro.	
" 29	Dairy Feed	49386	" "	3 "	5	Canadian Cereal & Milling Co., Ltd. Tillsonburg.	
DISTRICT OF LONDON—							
Feb. 19	Caldwell's Molasses Meal.	47889	W. J. Heaman, Exeter	3 jars.	15	Caldwell Feed Co., Dundas, Ont.	
" 19	Stock Feed	47890	" "	3 "	25	International Stock Food Co., Toronto.	
" 20	Royal Purple Stock Specific.	48204	Ford & McLeod, Clinton	3 "	50	W. A. Jenkins Mfg. Co., London, Ont.	
" 20	Pratt's Conditioner.	48206	" "	3 "	25	Pratt Food Co., Toronto.	
" 22	Bartlett's Farmers Brand Cotton Seed Meal.	48224	O. H. Killer, Stratford	3 "	Nil.	Bartlett Co., Detroit, Mich.	
DISTRICT OF WINDSOR—							
Feb. 15	Cotton Seed Feed Meal "Cream" Brand.	47880	A. M. Hamilton & Son, London.	a s.	Nil.	Tennessee Fibre Co., Memphis, Tenn.	
Jan. 12	Cotton Seed Meal ("Gayoso") Brand.	48075	D. B. Cohoe, Burgessville	3 "	"	Gayoso Oil Works, Memphis, Tenn.	

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.)	Analysis of Sample.	Results of Analysis. Proteids	Fat.	Fibre.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.						
		p.c.	p.c.	p.c.		
No Reg. Number on bags.	As guaranteed	25·0	5·0	5·0	19378	Up to guarantee.
	As found.	25·20	4·96	5·9		
" "	As guaranteed	27·0	10·0	6·0	49379	"
	As found.	25·90	9·86	6·5		
Reg. No. 115	As guaranteed	8·34	2·66	19·64	19380	"
	As found.	7·52	2·29	17·1		
" 12	As guaranteed	15·0	10·0	6·0	19381	1·36 per cent deficiency in proteids.
	As found.	13·64	11·24	6·1		
No Reg. number on bags.	As guaranteed	14·0	14·0	7·0	19382	Up to guarantee.
	As found.	17·28	15·10	6·3		
Reg. No. 98	As guaranteed.	20·04	5·23	22·94	19383	"
	As found.	23·33	5·50	13·4		
" 140	As guaranteed	15·13	3·44	6·0	19384	"
	As found.	17·67	2·74	6·2		
Analysis on bags but no Reg. number.	As guaranteed	15·0	3·5	12·0	193·5	"
	As found.	15·92	3·48	12·4		
No Reg. number on bags.	As guaranteed	17·0	4·5	15·0	19386	3·53 per cent deficiency in proteids; 5·6 excess fibre.
	As found.	13·47	3·35	20·6		

JNO. TALBOT, ACTING INSPECTOR.

Reg. No. 124	As guaranteed	4·6	0·81	2·71	47889	Up to guarantee.
	As found.	5·04	0·20	4·2		
					47890	Is a medicine, not a food.
					48204	" "
Reg. No. 148					48206	Is a condition powder, not a food.
	As guaranteed	41·0	7·0	10·0	48224	Up to guarantee.
	As found.	40·16	7·38	9·9		

JNO. TALBOT, INSPECTOR.

No Reg. No.	As guaranteed	20·0	5·0	22·0	47880	Up to guarantee.
	As found.	22·63	4·52	20·6		
"	As found.	43·75	6·78	7·00	48075	Not registered. No sale.

BULLETIN No. 241—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
							DISTRICT OF MANITOBA—
1912.							
Feb. 15	Stock Feed...	48631	Olafsson Grain Co., Winnipeg.	4 lbs..	50	International Stock Food Co., Toronto.	Scott, Bathgate & Co., Winnipeg.
" 15	" ..	48632	Carnefac Stock Food Co., Winnipeg.	3 " .	50	W. B. Douglas, Winnipeg.	.....
" 15	" .	48633	Laing Bros., Winnipeg...	3 " .	25	Colonial Stock Food Co., Weston, Ont.	.....
" 15	" ..	48634	" " ..	3 " .	50	Pratt Food Co. of Canada, Ltd.	.....
" 15	" ..	48635	The Mayer Co., Ltd., Winnipeg.	3 " .	Nil.	Vendors	.....
							DISTRICT OF CALGARY—
Mar. 9	Stock Feed. .	44151	Hegler & Hegler, Edmonton.	3 lbs .	25	De Hess & Clark, Ashland, U.S.	.....
" 9	" .	44152	" " ..	3 " .	25	International Stock Food Co., Minneapolis.	.....
" 19	" ..	44153	A. E. McKenzie Co., Ltd., Calgary.	3 " .	25	G. E. Lee Co	.....
" 19	" ..	44154	" " ..	3 " .	73	The G. E. Conkey Co., Cleveland, U.S.	.....
							DISTRICT OF NELSON—
Feb. 13	Stock Feed . .	49602	J. H. Clements, Kamloops.	1 pkg.	50	International Stock Food Co., Minneapolis.	.....
" 20	" ..	49629	McNair & Haddock, Ashcroft.	3 lbs .	10	.....	Evans, Coleman & Evans, Vancouver.
" 20	" ..	49630	Harvey Bailey Ltd., Ashcroft.	5 " .	60	Beaver M'fg. Co. Galt.	.....
Apr. 1	Beef Scrap ...	49639	Swift Canadian Co., Nelson, B.C.	3 " .	25	Swift Canadian Co., Edmonton.	.....
" 1	Poultry Bone.	49640	" " ..	3 " .	25	"	.....
							DISTRICT OF VANCOUVER—
Feb. 23	Stock Feed...	38315	Vancouver Milling and Grain Co., Vancouver.	3 lbs .	Nil.	Vendors	.....
" 23	" ..	38316	Brackman Ker Milling Co., New Westminister.	3 " .	"	"	.....

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion.	Analysis of Sample.	Results of Analysis. Proteids	Fat.	Fibre.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
A. C. LARIVIERE, INSPECTOR.						
		p.c.	p.c	p.c		
					48631	Is a medicine.
					18632	"
					48633	"
					18634	"
Reg. No. 11.	As guaranteed	18·50	5·17	3·51	18635	Up to guarantee as registered, but improperly labelled as containing 22·17 p.c. proteids.
	As found.	20·66	6·10	6·40		
R. W. FLETCHER, INSPECTOR.						
					14151	Is a medicine.
					14152	"
					14153	"
					14154	"
THOS. PARKER, INSPECTOR.						
					49602	Is a medicine.
	As found.	2·77	0·38	35·2	49629	Not registered. Is adulterated as chop feed.
					49630	Is a medicine.
Reg. No. 134	As guaranteed	50·0	8·0	none.	49639	Up to guarantee.
	As found.	62·20	12·62	"		
" 122	As guaranteed	25·0	5·0	Phosphate of lime 50 p.c.	49640	Deficiency of 3·36 per cent of fat.
	As found.	24·86	1·64	56·75		
J. F. POWER, INSPECTOR.						
Reg. No. 131.	As guaranteed	10·0	2·5	10·8	38315	Up to guarantee.
	As found.	18·90	3·88	10·7		
" 138.	As guaranteed	18·0	5·0	10·0	38316	4·22 per cent deficiency in proteids, and 1·62 in fat.
	As found.	13·78	3·38	9·3		

BULLETIN No. 241—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
							DISTRICT OF VICTORIA—
1912.							
Mar. 12	Corn Chop	49130	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	3 lbs.	8	Vendors	
" 12	Dairy Chop.	49131	" "	3 "	9	"	
" 12	Jersey Chop.	49132	" "	3 "	8	"	
" 12	Dairy Chop.	49133	T. H. Howe, Victoria, B.C.	3 "		Vancouver M. Co., Vancouver, B.C.	
" 12	Reg. Stock Feed.	49134	" "	3 "		Ogilvie Flour Mills, Winnipeg.	

SESSIONAL PAPER No. 14

REGISTERED STOCK FEEDS.

Inspector's Report (Is not an expression of opinion).	Analysis of Sample.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Proteids	Fat.	Fibre.		
D. O'SULLIVAN, INSPECTOR.						
		p.c.	p.c.	p.c.		
Reg. No. 136	As guaranteed	9·0	4·0	5·0	49130	Up to guarantee and legal as chop feed.
	As found.	11·81	3·92	7·2		
" 137	As guaranteed	7·0	3·0	15·0	49131	Up to guarantee, but below legal chop feed.
	As found.	6·42	2·40	17·6		
" 138	As guaranteed	18·0	5·0	10·0	49132	Up to guarantee, and up to legal standard for chop feed.
	As found	19 60	4·52	12 6		
" 131	As guaranteed	10·0	2·5	18·0	49133	Up to guarantee and to legal chop feed.
	As found.	10 76	2·08	9·2		
Statement re Schedule A was printed on sacks, except Reg. No. which was not visible on any of the sacks.	As found.	6 24	2·52	25 10	49134	No guaranteed analysis given by Vendor hence sale illegal.

APPENDIX F.

BULLETIN No. 242—FERTILIZER INSPECTION 1912.

OTTAWA, September 23, 1912.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister Inland Revenue.

SIR,—I have the honour to report to you upon 324 samples of fertilizers collected by our inspectors in April and May of this year. This report should have been in your hands some months ago, and many inquiries have been made for it by interested parties. The delay has been quite unavoidable and is due to the fact that this laboratory is undermanned, and is quite unable to keep up with the demands made upon it.

One of the samples in question is not a fertilizer in the legal sense (No. 37457) so that the present report deals only with 323 samples.

Of this number 287 samples meet the guaranteed value of the brands which they represent, and for which they are sold. Twenty-six (26) other samples which were sold without registration numbers have been identified as to their registration by the records filed with the Department.

For purposes of such identification use has been made of the name of the brand and the name and the location of the manufacturer. The samples now referred to meet the requirements of the guaranteed value; and note of this is made in the report. Registration numbers supplied from Departmental records as just described, are printed in brackets, to distinguish them from registration numbers furnished by our inspectors, as found on the samples.

Strictly speaking the 26 samples in question are sold illegally (Section 7 of the Act) and the vendors are amenable to the penalties named in Section 15.

There is nothing to justify failure to observe the requirements of an Act which has been three years in existence; and it is my duty to recommend enforcement of legal penalties in these cases. There remain 10 samples to be specially considered as follows:—

No. 47072. Is sold without a registration number, although its guaranteed value appears on a tag. It shows 10 per cent deficiency in phosphoric acid, and is adulterated under the Act.

No. 47073. Is not registered, and is amenable to penalties imposed by Section 15.

No. 47089. This sample is adulterated as being 6 per cent below its guarantee in phosphoric acid.

No. 47093. This sample is adulterated as being 3·5 per cent below guarantee value in potash, and 0·75 below in ammonia.

37433. Is not a manufactured fertilizer and said to be sold by mistake.

No. 37437. Is slightly below strength in ammonia. The total value of the fertilizer is however fully equal to its guarantee, there being compensating excess of phosphoric acid.

No. 49407. Is more than one per cent below guarantee in nitrogen, but value is compensated by excess of phosphoric acid.

No. 48255. Samples said to be from old stock, not offered for sale.

No. 44179. Is not registered, and therefore amenable to penalty fixed by Section 15 of the Act.

No. 38348. Sold without registration, therefore subject to penalties fixed by Section 15.

As already stated, this Act has been three years in existence and there should be no difficulty, in securing its strict enforcement. Nevertheless, I am convinced the present machinery is inadequate to this end.

Fertilizers are largely sold to consumers without coming into the possession of agents, or being held in stock by these last. This fact makes it difficult to obtain samples of the goods which actually come into the hands of the consumers.

In order to get these, it would be necessary for our inspectors to visit the consumers, a condition manifestly impossible of fulfilment. Provision is made in Section 10 of theAct, for the user of the fertilizer himself to secure analysis of the goods supplied him, on payment of a nominal sum. As a matter of fact comparatively few purchasers of fertilizers avail themselves of this privilege, less on account of the cost than because of the difficulty of securing a legally representative sample of goods.

The 323 samples herein reported represent 234 different brands, of which 108, or nearly one-half are imported. It would appear to be easily possible to secure samples of these by co-operation with officials of the Customs Department who could sample the goods at the port of entry; or notify our own inspectors to do this. I shall endeavour to have the suggested plan carried out during the coming year. There appears to be a very sincere desire on the part of manufacturers to live up to the requirements of the Act; and the few instances of failure to meet its demands are seemingly due to carelessness, rather than to any purposed fraud.

In many cases where the dealer has been guilty of selling without a registered number, it has been found by correspondence that the article sold was actually registered by the manufacturer but sold without production of the registration number. In such case the dealer alone is to be blamed. Where through carelessness in handling or storage the registration number is obliterated or lost, the vendor is guilty of violating the terms of the Act, although such violation may be quite unintentional.

I beg to recommend the publication of this report as Bulletin No. 242.

I have, the honour to be, Sir,
Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 242—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (is not an expression of opinion).
DISTRICT OF NOVA SCOTIA—								
1912.								
April 29	1-8-5 Brand ..	47064	G. Roy, Kentville.	3 lbs.	Nil.	Dom. Fert. Co., St. Stephens, N.B	.....	.....
" 29	Ground Bone.	47066	Berwick Fruit Co., Berwick, N.S.	3 "	"	Nova Scotia Fert. Co., Halifax, N.S.	.....	Not numbered.
" 29	Chutes Special	47067	" " ..	3 "	"	Pidgeon Fert. Co., Windsor, N.S.	.....	.....
" 29	Ground Bone.	47068	" " ..	3 "	"	" " ..	.....	.....
" 29	Scotch Potato Manure.	47069	United Fruit Co., Berwick, N.S.	3 "	"	A. Cross & Son, Glasgow, Scot.	.....	.....
" 29	Basic Slag A. Quality.	47070	" " ..	3 "	"	A. Cross & Son, Sydney, N.S.	.....	.....
May 3	Thomas Phosphate Flour.	47071	D. Hill, Truro, N.S.	3 "	"	Leeds Phosphate Works, Leeds, Eng.	.....	.....
" 3	Potato Phosphate.	47072	Colchester Co., Farmers Co-op. Ass., Truro, N.S.	3 "	"	F. D. Burris, Truro, N.S.	.....	No reg. number on bag.
" 7	Ground Bone.	47073	Illsley & Harvey, Port Williams, N.S.	3 "	"	Unknown	Holinghurst & Co., London, Eng.	No number on bag.
" 7	Nitrate of Soda	47074	" " ..	3 "	"	" ...	Pidgeon Fer. Co., Windsor, N.S.	.....
" 7	Stockbridge Complete Manure.	47075	Burgess & Co., Wolfville, N.S.	3 "	"	Bowker & Co., Boston, Mass.	.....	.....
" 7	Market Garden.	47076	" " ..	3 "	"	" " ..	.....	.....
" 7	6% Potato Phosphate.	47077	" " ..	3 "	"	" " ..	.....	.....
" 7	Ground Bone.	47078	R.E. Harris & Son, Wolfville, N.S.	3 "	"	Swifts Lowell Fert. Co., Lowell Mass.	.....	.....
" 7	Potato Phosphate.	47079	" " ..	3 "	"	" " ..	.....	.....
" 7	Potato Manure	47080	" " ..	3 "	"	" " ..	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen, p.c.		Phosphoric Acid, p.c.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c	
192	As guaranteed	0·80	1·0	6·0	2·0	1·0	9·0	8·0	5·0	47064	
	As found.	0·93	1·13	5·05	2·55	1·75	9·35	7·60	6·18	. . .	Meets guarantee.
141	As guaranteed	. . .	3·0	. . .	. .	. .	23·0	. .	. .	47066	Value equal to assumed guarantee.
	As found.	0·84	1·02	1·75	15·50	13·95	31·20	17·25	. .	. .	
275	As guaranteed	4·0	4·80	6·0	1·0	2·0	9·0	7·0	4·0	47067	
	As found.	3·38	4·11	4·00	5·55	2·45	12·00	9·55	4·05	.	Meets guarantee.
27	As guaranteed	. . . . .	3·0	. .	. .	. .	20·00	. .	. .	47068	
	As found.	2·69	3·26	. . .	. . .	. .	23·55	. .	. .	. .	"
515	As guaranteed	2·47	3·0	7·0	1·0	1·0	9·0	8·0	5·0	47069	
	As found.	2·58.	3·14	8·20	3·10	2·25	13·55	11·30	1·58	.	
557	As guaranteed	. . . .	. .		12·8	. .	. .		.	47070	
	As found.	. . . . .	. .		11·56	1·04	16·00	11·96	.	.	
253	As guaranteed	. . . . .	. .		. .	. .	18·0			47071	
	As found.	. .	. .	. .	. .	. . . .	21·05			. . .	"
	As guaranteed	. . . .	4·0		. .		15·0		4·0	47072	10 p.c. deficiency in P_2O_5. Not registered; but analysis on tag
	As found.	2·05	2·49				4·78		3·96		
	As guaranteed	. . . .	. . .	. . .	. .	. .	. .	. .	. .	47073	Not registered.
	As found.	2·25	2·73	0·55	13·15	11·25	24·95	13·70			
326	As guaranteed	15·65	19·0	. .	. . .	. .	. .	. .		47074	Meets guarantee.
	As found.	16·30	19·79		. . . .		. .	. .	.	.	
88	As guaranteed	3·29	4·0	4·0	2·0	1·0	7·0	6·0	10·0	47075	
	As found.	3·22	3·91	4·60	3·90	1·75	10·25	8·50	11·36	. .	"
90	As guaranteed	2·47	3·0	4·0	2·0	1·0	7·0	6·0	10·0	47076	
	As found.	2·41	2·93	4·25	2·95	1·40	8·60	7·20	12·24	. . .	"
96	As guaranteed	0·82	1·0	4·0	2·0	1·0	7·0	6·0	6·0	47077	
	As found.	0·82	1·00	5·15	1·95	1·70	8·80	7·10	6·72	. .	"
117	As guaranteed	2·46	3·0	. . . .	. . . .	. .	23·0	.		47078	
	As found.	2·53	3·08	. . . .	. . . . .	. .	28·80	. .	.	. .	"
110	As guaranteed	2·46	3·0	4·0	4·0	1·0	9·0	8·0	6·0	47079	
	As found.	2·18	2·65	6·05	2·75	2·45	10·25	7·80	6·68	. . . .	"
14	As guaranteed	1·64	2·0	4·0	3·0	1·0	8·0	7·0	4·0	47080	
	As found.	1·83	2·22	6·05	2·65	1·20	9·90	8·70	5·60		

R. J. WAUGH, INSPECTOR.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF NOVA SCOTIA—
1912.								
May 7	Ground Bone.	47081	R. E. Harris & Son, Wolfville, N.S.	3 lbs.	Nil.	Essex Fert. Co., Boston, Mass.		
" 7	Corn and Grass	47082	" ..	3 "	"	" ..		
" 7	Super-phosphate.	47083	" ..	3 "	"	" ..		
" 8	Brunswick Brand.	47084	Pidgeon Fert. Co., Windsor, N.S.	3 "	"	Vendors		
" 8	Potato Manure	47085	" ..	3 "	"	"		
" 8	No. 1 Slag	47086	" ..	3 "	"	Stoockman & Hooschitzlee.		
" 8	S B Square Brand.	47087	F. W. Dimock, Windsor, N.S.	3 "	"	Bowker & Co., Boston, Mass.		
" 10	Imperial Superphosphate.	47088	E. D. Smith, Dartmouth, N.S.	3 "	"	Prov. Chemical Fert. Co., St. John, N.B.		
" 10	Bone Meal	47089	" ..	3 "	"			
" 13	Ground Bone.	47090	A. S. Melvin & Co., Halifax, N.S.	3 "	"	Nova Scotia Fertilizer Co., Halifax, N.S.		
" 13	Ceres	47091	" ..	3 "	"	" ..		
" 13	Potato Phosphate.	47092	"	3 "	"	" ..		
" 14	High Grade	47093	Nova Scotia Fert. Co., Halifax, N.S.	3 "	"	Vendors		
" 14	Potato Grower	47094	" ..	3 "	"	"		
" 14	Special Potato Phosphate.	47095	" ..	3 "	"	"		
" 14	10 % Potato Phosphate	47096	" ..	3 "	"	"		
" 17	Thomas Phosphate Powder.	47097	Amherst Trading Co., Amherst, N.S.	3 "	"	Leeds Phosphate Works, Leeds, Eng.		
" 17	Basic Slag B. Quality.	47098	R. A. Beckwith, Amherst, N.S	3 "	"	A. Cross & Sons, Sydney, N.S.		
" 30	Acid Phosphate.	47099	Berwick Trust Co., Berwick, N.S.	3 "	"	Dom. Fert. Co., St. Stephen, N.S.		
" 30	Blood Bone and Potash.	47100	C. O. Cook & Son, Waterville.	3 "	"	Am. Agr. Chem. Co., New York		
" 30	Ground Bone	47101	" ..	3 "	"	New England Co., Boston, Mass.		No registered number on bags.

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c.		Phosphoric Acid p.c.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		
Continued.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p.c.		
(124)	As guaranteed	2 16	3 0	...	...	...	23 0	..	.	47081	Meets guarantee.
	As found.	2 80	3 10	1·05	12 20	14 05	27 30	13 25	trace.		
120	As guaranteed	0·82	1 0	4 0	1 0	1 0	9 0	8 0	4 0	47082	
	As found.	0 94	1 15	7 80	1 00	2 30	11 10	8 80	4 65		"
122	As guaranteed	1 25	1 5	4 0	3 0	1 0	8 0	7 0	2 0	47083	
	As found.	1 22	1 18	6 35	0 55	2 55	9 45	6 90	2 90	..	"
28	As guaranteed	.	1 0	..	..		8 0	6 0	10 0	47084	
	As found.	3 53	1 29	...		1 15	8 15	7 00	9 51		"
29	As guaranteed	.	2 5	...	..	.		6 0	5 0	47085	
	As found.	2·06	2 50	...	..	1 75	9 65	7 90	6 02		"
518	As guaranteed	...	.	...	15 0	3 0	18 0	.	.	47086	
	As found.	....	..	...	15 68	4 52	20 20	15 68	..		"
95	As guaranteed	1 65	2 0	4 0	2 0	1 0	7 0	6·0	2 0	47087	
	As found.	1 47	1 89	4·25	3 85	1 60	9 70	8 10	2 31		"
69	As guaranteed	. ...	3 0	.	.. ...	.	10 0		1 5	47088	
	As found.	2 38	2 89	.	.....	3 20	11 35	8·15	1 75		"
72	As guaranteed	..	3 10	...	....		24 15	.		47089	1 p.c. below guarantee in phosphoric acid.
	As found.	2 79	3 30	.	. .		17 73	..			
44	As guaranteed	..	3 0		...		23 0	.	....	47090	
	As found.	2·21	2 68	..	.. ...	..	25 55	.	....	.....	Meets guarantee.
37	As guaranteed	.....	2 0	.....		2 0	9 0	7·0	2·0	47091	
	As found.	1·50	1 82	..	. .	1 15	10 05	8 90	3 05	..	"
38	As guaranteed	. ....	2 0	.	.	2 0	10 0	7 0	4 0	47092	
	As found.	1 72	2 09	.. ..	....	1 70	10·70	9 00	4·77		"
36	As guaranteed	....	4 0	.....	.....	2 0	8 0	6 0	10·0	47093	3·5 p.c. low in potash, and 0 75 in ammonia.
	As found.	1 83	2 23	.....	.....	2 15	8 30	6 15	6·18		
452	As guaranteed	.....	2·0	....	....	.. .	7·0	.	2 0	47094	
	As found.	1 84	2 23	.....	.....	.. .	11 55	...	3 95	.. .	Meets guarantee.
40	As guaranteed	.....	2 5	.....	.....	2·0	8 0	6 0	7 0	47095	"
	As found.	1 71	2 07	... .	.... .	2 85	11 25	8 40	6 68		
41	As guaranteed	....	2 .	.....	.....	2 0	8·0	6 0	10 0	47096	
	As found.	2·60	3·16	.. ...	....	2 60	10 70	8·10	11 00		"
253	As guaranteed	.....	.....	.....	.....	.. .	18 00	. . .	...	47097	
	As found	. .. ...	.....	.....	.....	.. .	18 10	.....	.. .		"
555	As guaranteed	.....	.....	.....	11·2		...		....	47098	
	As found.	.....	.. ....	.... ..	14 20	0·85	15·05	11 20	....		"
600	As guaranteed	... ...	.....	.....	.....	....	....	16·0	. .	47099	
	As found.	.....	.... ..	.....	.....	2·75	19 40	16 65	.....	. ..	"
266	As guaranteed	0·82	1·0	6 0	2·0	1 0	9 0	8 0	5 0	47100	
	As found.	0·88	1 07	6 85	2·40	1·25	10 50	9·25	6 85	...	"
(139)	As guaranteed	2·46	3·0	.....	.....	..	23 0	....	.....	47101	
	As found.	2·41	2 92	.....	.....	....	31 60	..	.....	. ...	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF NOVA SCOTIA—		
1912.								
May 30	Plain Superphosphate.	47102	C. O. Cook & Son, Waterville.	3 lbs.	Nil.	Am. Agr. Chem. Co., New York	.....	.....
" 30	Aroostook Complete Manure.	47103	" ..	3 " .	"	" " ..	.....	.....
						DISTRICT OF PRINCE EDWARD ISLAND—		
May 8	Nitrate of Soda	46196	John H. Gill, Charlottetown, P.E.I.	5 lbs .	15	The Nitrate Agencies Co., New York.	.....	.....
" 8	Muriate of Potash.	46197	" .	3 " .	10	.....	The Nitrate Agencies Co., New York.	Made in Germany.
" 8	Sulphate of Potash.	46198	" ..	3 "	10	.....	" ..	" .
" 8	Muriate of Potash.	46199	Auld Bros., Charlottetown, P.E.I.	3 "	10	.....	German Kali Works, New York	" ..
" 8	Superphosphate.	46200	" ..	3 " .	10	Thos Vickers & Sons, Ltd., Manchester, Eng.	.....	.....
" 8	Nitrate of Soda	46201	" ..	5 " .	15	.....	.....	.....
" 8	Thomas Phosphate.	46202	" ..	5 " .	10	Swan Bros, Wigan, Eng.	.....	.....
" 8	Superphosphate.	46203	J. H. Gill, Charlottetown, P.E.I.	3 " .	10	Alex. Cross & Son, Ltd., Glasgow, Scot.	.....	.....
" 20	Phospho Potassic Fertilizer.	46204	J. H. Gill, Charlottetown, P.E.I.	3 " .	10	Alex. Cross & Son, Ltd., Glasgow, Scot.	.....	.....
" 20	Canadian Potato Fertilizer.	46205	" " .	3 " .	10	" " ..	.....	.....
" 20	Cross' Garden Fertilizer.	46206	" "	3 " .	10	" " ..	.....	.....
" 21	Swifts Lowell Animal Brand.	46207	A. Horne & Co., Ch. Town, P.E.I.	3 " .	10	Swifts Lowell Fert. Co., Boston, Mass.	.....	.....
" 22	Ground Bone..	46208	" " ..	3 " .	10	.....	.....	No reg. number.
" 22	Swifts Lowell Potato Phosphate.	46209	" " ..	3 " .	10	Swifts Lowell Fert. Co., Boston, Mass.	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p. c. Total including that of Nitric Acid or ammonia if present.	Nitrogen p. c. Total calculated as Ammonia.	Phosphoric Acid p. c. Soluble in Water.	Phosphoric Acid p. c. Reverted or Citrate Soluble.	Phosphoric Acid p. c. Insoluble.	Phosphoric Acid p. c. Total.	Phosphoric Acid p. c. Total available.	Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.											
		p. c	p c	p c	p c	p c.	p. c.	p. c.	p. c.	p. c.	
309	As guaranteed	...	.... ..	12·0	2 0	1 0	15·0	14·0	.. ..	47102	
	As found.	....	.....	14 55	3·40	2·15	20·10	17·95	.....	.. .	Meets guarantee.
184	As guaranteed	2·47	3·0	4 0	2 0	1·0	7·0	6 0	10·0	47103	
	As found.	2·21	2·68	5 75	3·10	1 15	10 00.	8·85	11·08	....	"
WM. A. WEEKS, INSPECTOR.											
255	As guaranteed	15 0	18·0	...						46196	Meets guarantee.
	As found.	15·58	18·93	...	... ..				..	.....	
257	As guaranteed	.....	.....		.. ....	.			50 0	46197	
	As found.	.....	.....	...	.. ....	....			50 00	.. .	
258	As guaranteed	.	.... ..	..... .	.. ....	...		.	40 0	46198	
	As found.	.. .. ..	.....	.....	....	.			46·80	.....	
327	As guaranteed	. ..	....	. ...	.. ....	.....	..	..	50 0	46199	
	As found.	.....	.... ..	.....	....	.. ..	..	....	49·75	...	"
324	As guaranteed	... .	.....	.....	.....	.....	.....	16 0	...	46200	
	As found.	.. ....	. . .	. .	.	2·20	19 35	17·15	.	.	"
179	As guaranteed	15·0	18 23	....	... ..	.. ..	...	. ..		46201	
	As found.	16·00	19 43	...	... ..	...	...	....	...	.....	"
323	As guaranteed	.....	....	..	11·20	2·80	11 0	11 20	...	46202	
	As found.	.... .	....	.....	14 32	3·68	18·00	14 32	..	.....	"
327	As guaranteed	....	....	16 0	...	...	16·0	.....	...	46203	
	As found.	. ..	... ...	17·80	..		18·70	.....	.	.... .	"
427	As guaranteed	. ....	.....	.....	9·0	...	...	....	2·5	46204	
	As found.	... .	.....	2·40	6 85	2 40	11 65	9·25	2 12	.....	
516	As guaranteed	....	3·0	....	....	..	9·0		6 0	46205	
	As found.	3·06	3·50	. .	. .	. .	11 15	.. .	6·80	. ..	
587	As guaranteed	.....	5·16	7·00	...	..	...	..	5 00	46206	
	As found.	4·14	5·03	9·15	.....	. .	13·45	....	4·60	.....	"
116	As guaranteed	2·46	3 0	4·0	4·0	2 0	10·0	8·0	4·0	46207	
	As found.	2 41	2·92	7·85	1·60	1·40	10·95	9·45	4 63	.....	"
(117)	As guaranteed	2 47	3·0	... ..	... ..	.....	23·0	....	.....	46208	
	As found	2·60	3·15	.....	.....	.....	26·05	.....	.....	.....	"
(110)	As guaranteed	2·40	3·0	4·0	4·0	1 0	9·0	8·0	6·0	46209	
	As found.	2·74	3·23	6·85	4·50	0·65	12·00	11 35	7·06	.. .	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF PRINCE EDWARD ISLAND—					
1912.								
June 17	Sulphate of Potash.	46210	Auld Bros., Ch. Town, P.E.I.	3 lbs.	....	German Kali Wks. Leopoldshall Strasfurt Ger.	....	.....
" 20	Acid Phosphate.	46216	J. H. Gill, Ch. Town, P.E.I.	3 "	....	Nova Scotia Fert. Co., Halifax, N.S.	R. E. Mutch & Co., Ch. Town.	.... ..
			DISTRICT OF NEW BRUNSWICK—					
April 16	Thomas Phosphate Powder.	45655	The Anglo Can. Chem. Co., St. John, N.B.	3 jars.	10	H. & E. Albert, London, Eng.	..	.. ...
" 16	Special Odourless Potato Phosphate.	45656	" " ..	3 "	10	" "	..	... ...
" 17	Stockbridge Special Complete Manure.	45657	D. J. Seely & Son, St. John, N.B.	3 "	10	Bowker Fert. Co., Boston, Mass.	.....	....
" 17	Bowkers 6% Potato Fertilizer.	45658	" " ..	3 "	10	" "	....	....
" 17	Market Garden	45659	" " ..	3 "	10	" "	....	....
" 18	Potato Manure	45660	P. Nase & Son, St. John, N.B.	3 "	15	Lowell Fert. Co., Boston, Mass.	....	....
" 18	Potato Phosphate.	45661	P. Nase & Son, St. John, N.B.	3 jars.	15	Lowell Fert. Co., Boston, Mass.	.....	....
" 18	Empress Brand	45662	" " .	3 "	15	" "	... .	.....
" 19	Farm and Garden Phosphate.	45663	D. J. Seely & Son, St. John, N.B.	3 "	10	Bowker Fert Co., Boston, Mass.	....	.....
" 19	Bowkers Bone and Potash "Square" Brand.	45664	" " ..	3 "	10	" "	.....	.....
" 19	Bowkers Potato and Vegetable Phosphate.	45665	" " ..	3 "	10	" "	.....	. .....
" 22	10% Complete Aroostook.	45666	The Prov. Chem. Fert. Co., Ltd., St. John, N.B.	3 "	10	Vendors	....	.....
" 22	Special Potato Phosphate.	45667	" " ..	3 "	10	"	... .	....
" 22	Potato Manure	45668	" " ..	3 "	10	"	... .	....
" 26	Four-Six-Ten.	45669	Dom. Fert. Co., Ltd., St. Stephens, N. B.	3 "	10	"	....	..... .

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of analysis. Nitrogen p.c.		Phosphoric Acid p.c.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total including that of Nitric Acid or ammonia if present	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		
Concluded.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
306	As guaranteed								48·0	46210	Meets guarantee.
	As found.								49·60		
328	As guaranteed				14·0	2·0	16·0	14·0		46216	
	As found.			16·80		2·15	18·95	16·80			

J. C. FERGUSON, INSPECTOR

1	As guaranteed						15·0			45655	Meets guarantee.
	As found.						19·25				
112	As guaranteed	2·0					7·0		7·0	45656	
	As found.	1·12	1·72			1·00	9·40	8·40	7·60		
88	As guaranteed	3·29	4·0	4·0	2·0	1·0	7·0	6·0	10·0	45657	
	As found.	3·29	4·00	5·15	3·25	1·05	9·45	8·40	10·54		
96	As guaranteed	0·82	1·0	4·0	2·0	1·0	7·0	5·0	6·0	45658	
	As found.	0·91	1·11	5·25	2·75	1·05	9·05	8·00	8·05		
90	As guaranteed	2·47	3·0	4·0	2·0	1·0	7·0	6·0	10·0	45659	
	As found.	2·31	2·81	3·75	4·20	0·85	8·80	7·95	10·98		
460	As guaranteed	1·64	2·0	3·0	4·0	1·0	8·0	7·0	4·0	45660	
	As found.	1·81	2·20	4·00	1·55	1·00	9·55	8·55	1·75		
456	As guaranteed	2·46	3·0	4·0	4·0	1·0	9·0	8·0	6·0	45661	
	As found.	2·46	2·98	7·20	1·65	0·95	9·80	8·85	6·58		
458	As guaranteed	1·24	1·5	3·0	1·0	1·0	8·0	7·0	2·0	45662	
	As found.	1·04	1·20	5·75	2·10	1·55	9·40	7·85	2·20		
94	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	2·0	45663	
	As found.	1·73	2·10	5·85	3·45	2·20	11·50	9·30	2·85		
95	As guaranteed	1·65	2·0	4·0	2·0	1·0	7·0	6·0	2·0	45664	
	As found.	2·07	2·52	6·90	0·70	1·05	9·25	7·60	2·72		
92	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	2·0	45665	
	As found.	1·85	2·25	6·20	2·40	2·90	11·50	8·60	2·51		
65	As guaranteed		4·0				8·0		10·0	45666	
	As found.	3·09	3·75				9·50		10·93		
63	As guaranteed		2·5				8·0		6·0	45667	
	As found.	2·20	2·67				9·85		6·64		
70	As guaranteed		2·0				7·0		4·0	45668	
	As found.	1·93	2·35				9·60		4·11		
487	As guaranteed	3·3	4·0	4·0	2·0	1·00	7·0	6·0	10·0	45669	
	As found.	3·00	3·61	2·60	4·50	1·15	8·25	7·10	9·67		

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion).
						DISTRICT OF NEW BRUNSWICK—		
1912.								
April 26	Three-Six-Ten	45670	Dom. F't.Co., Ltd., St. Stephens, N.B..	3 jars.	10	Vendors....	.....	.. ..
" 26	Two-Eight-Ten.	45671	" " ..	3 "	10	"	.....	....
" 26	Bradleys X. L. Superphosphate.	45672	Hill Bros., St. Stephens, N.B.	3 "	10	The Am. Agr. Chem. Co., Boston, Mass.	... .	....
" 26	Bradleys Potato Manure.	45673	" " ..	3 "	10	" " ..	....	Name and analysis on bags but no registration number.
May 2..	High Grade Potato Phosphate.	45674	Knight & Barr, Fredericton, N. B.			The Nova Scotia Fert.Co., Halifax, N.S.	.....	.....
" 2..	10% Potato Phosphate.	45675	" " ..	3 "	10	" " ..	....	.. .. .
" 2..	New England Potato Fertilizer.	45676	T.W. Sansom, Fredericton, N.B.	3 " .	10	New England Fert. Co., Lowell, Mass.	....	....
" 3..	Reads High Grade Farmers Friend.	45677	Phillips & Estey Co., Woodstock, N.B.	3 " .	10	The Am. Agr. Chem. Co., New York.	....	....
" 3..	Great Eastern	45678	Salomon Perley, Woodstock, N.B.	3 " .	10	" " ..	....	....
" 3..	Bradleys High Grade with 10% Potash.	45679	Benn & Turney, Woodstock, N.B.	3 " .	10	" " ..	....	....
" 4..	Coe's Complete Manure with 10% Potash.	45680	Porter Manzer Co. Ltd., Perth, N.B.	3 " .	Nil.	The Coe Montimer Co.. New York.	....	....
" 6..	Blood Bone and Potash.	45681	Warren Jamer, Andover, N.B.	3 " .	15	Prov. Chem. Fert.Co., Ltd., St.John, N.B.	.....	.....
" 9..	Peerless.....	45682	The Sussex Mercantile Co. Ltd., Sussex, N.B....	3 " .	10	New England Fert. Co., Boston, Mass.	... .	....
" 9..	Corn and Grain	45683	" " ..	3 " .	10	" " ..	....	No registered number on bags.
" 9..	Basic Slag A..	45684	" " ..	3 " .	10	The Cross Fert. Co. Ltd., Sydney, N.S.	....	....
" 9..	Turnip Phosphate.	45685	Mills Eveleigh, Ltd, Sussex, N. B.	3 " .	10	NovaScotiaFert. Co., Halifax, N.S.	.. ..	.. ..
" 10..	Pacific Potato Special.	45686	Toombs & Son, Moncton, N.B.	3 " .	10	The Am. Agr. Chem. Co., New York.	.....	.... ..
" 10..	Pacific Nobsque Guano for all crops.	45687	" " ..	3 " .	10	" " ..	....	..... .
" 10..	Soluble Pacific Guano.	45688	" " ..	3 " .	10	" " ..	....	.. ..
" 10..	Potato Grower	45689	" " ..	3 " .	10	The Nova Scotia Fert. Co., Halifax, N.S.	....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p. c.		Phosphoric Acid p. c.					Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.			
Concluded.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
488	As guaranteed	2·4	3·0	4·0	2·0	1·0	7·0	6·0	10·0	45670	Meets guaranteed.
	As found.	2·67	3·25	2·25	4·05	1·65	7·95	6·30	10·33		
489	As guaranteed	1·6	2·0	6·0	2·0	1·0	9·0	8·0	10·0	45671	
	As found.	2·03	2·47	5·75	3·75	0·5	10·06	9·5	12·51		"
2	As guaranteed	2·0	2·5	6·0	2·0	1·0	9·0	8·0	1·5	45672	
	As found.	1·80	2·19	4·15	1·25	1·20	9·60	8·40	2·80		"
190)	As guaranteed	2·47	3·0	4·0	2·0	1·0	7·0	6·0	5·0	45673	
	As found.	2·25	2·75	4·50	1·90	0·85	7·25	6·40	5·13		"
36	As guaranteed		4·0			2·0	8·0	6·0	10·0	45674	
	As found.	2·87	3·49	1·45	7·60	0·70	9·75	9·05	12·40		"
41	As guaranteed	2·0	2·5			2·0	8·0	6·0	10·0	45675	
	As found.	1·68	2·04			1·5	8·35	6·85	10·14		"
133	As guaranteed	1·64	2·0	4·0	3·0	1·0	8·0	7·0	4·0	45676	
	As found.	1·85	2·28	6·25	1·10	3·05	10·40	7·35	4·84		"
10	As guaranteed	2·47	3·0	4·0	2·0	1·0	7·0	6·0	10·0	45677	
	As found.	3·09	3·75	3·20	4·20	1·25	8·65	7·40	11·22		"
201	As guaranteed	3·29	4·0	4·0	2·0	1·0	7·0	6·0	10·0	45678	
	As found	3·16	3·84	4·40	4·80	0·90	10·10	9·20	10·84		"
8	As guaranteed	2·47	3·0	4·0	2·0	1·0	7·0	6·0	10·0	45679	
	As found.	2·14	2·60	3·90	3·65	1·25	8·80	7·55	10·81		"
198	As guaranteed	2·47	3·0	3·0	3·0	1·0	7·0	6·0	10·0	45680	
	As found.	2·62	3·14	3·00	2·45	1·45	7·50	6·05	9·90		"
71	As guaranteed		2·0				7·0		4·0	45681	
	As found.	2·66	3·06				7·30		4·88		"
134	As guaranteed	0·82	1·0	4·0	3·0	1·0	8·0	7·0	1·0	45682	
	As found.	0·83	1·00	6·25	1·40	1·35	8·00	7·65	1·62		"
(132)	As guaranteed	1·22	1·5	4·0	3·0	1·0	8·0	7·0	2·0	45683	
	As found.	1·95	2·37	7·05	1·95	1·60	10·06	9·00	5·05		"
557	As guaranteed				12·8					45684	
	As found.				14·88	1·12	16·00	11·88			"
34	As guaranteed		2·0			2·0	7·0	5·0	4·0	45685	
	As found.	1·79	2·16	5·95	1·35	0·95	8·25	7·30	4·28		"
15	As guaranteed	2·0	2·50	6·0	2·0	1·0	9·0	8·0	3·0	45686	
	As found.	2·0	2·53	6·30	2·80	2·00	11·10	9·10	3·43		"
16	As guaranteed	1·05	1·25	6·0	2·0	1·0	9·0	8·0	2·0	45687	
	As found.	1·11	1·23	7·05	2·35	1·75	11·15	9·40	2·58		"
14	As guaranteed	2·06	2·5	6.0	2·0	1·0	9·0	8·0	1·5	45688	
	As found.	1·86	2·25	6·00	2·60	3·35	11·95	8·60	2·16		"
452	As guaranteed		2·0				7·0		2·0	45689	
	As found.	1·62	1·97				11·2		2·35		"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF QUEBEC—
1912.								
April 16	Fertilizer.	37433	F. C. Marquis, Rue Gayard, Quebec.			C. Marquis.		Not registered.
" 18	"	37434	N. Vezina, Lamolon.			Anglo. Can. Chem. Co., St. John, N. B.		
" 19	"	37435	P. T. Légaré, Quebec.			Michigan Carbon Works.		
" 19	"	37436	"			"		
" 19	"	37437	"			T. F. Higginson, Buckingham.		
" 19	"	37438	"			"		
" 19	"	37439	"			"		
" 19	"	37440	"			"		
" 19	"	37441	"			"	Michigan Carbon.	
" 19	"	37442	"			"	"	
" 20	"	37443	Eugène Julien, St. Malo, Quebec.			Nitrate Agency Co., New York	Mfrs.	
" 20	"	37444	"				"	
" 20	"	37445	"			Nitrate Agency Co., New York	"	
" 20	"	37446	" "			Am. Agr. Chem. Co., Buffalo.		
" 20	"	37447	" "			" "		
" 20	"	37448	" "			Leeds Phosphate Wks., England	Mfrs.	
" 26	"	37449	Geo. Tanguay, Quebec.			Vendor.		Capital.
" 26	"	37450	" "			"		Jupiter.
" 26	"	37451	" "			"		Phoenix.
" 26	"	37452	" "			"		Monarch.
" 26	"	37453	" "			"		Union.

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Results of Analysis.

Registration Number.	Analysis of Sample.	Nitrogen p.c.		Phosphoric Acid p.c.					Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.			
F. X. W. E. BÉLAND, INSPECTOR.											
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
...	As guaranteed	...	...	...	...	...	...	...	...	37433	Not a fertilizer.
	As found.	5·00	6·07	0·50		3·25	16·55	13·30			
(1)	As guaranteed	...	...	...	...	...	15·0	...	...	37431	
	As found.	...	...	...	...	...	20·95	...	...	...	Meets guarantee.
212	As guaranteed	...	2·0	...	...	...	8·0	...	10·0	37435	
	As found	1·51	1·87	7·80	2·20	1·80	11·80	10·0	10·35		
207	As guaranteed	1·65	2·0	...	...	...	9·0	8·0	1·0	37436	
	As found	1·78	2·16	6·95	2·85	1·60	11·30	9·70	1·32		
83	As guaranteed	...	2·0	...	...	...	7·0	...	3·0	37437	Low ammonia but excess phosphoric acid.
	As found.	0·20	0·24				10·65		3·16		
84	As guaranteed	...	4·0	...	...	...	9·0	...	5·0	37438	
	As found	3·95	1·80				11·90		5·29		Meets guarantee.
337	As guaranteed	...	...	7·0	...	...	...	...	...	37439	
	As found	...	...	7·05	...	...	...	...	...	...	
86	As guaranteed	...	2·0	...	...	...	6·0	...	2·0	37440	
	As found.	2·12	2·53	...	...	3·85	10·10	6·25	2·62	...	
(81)	As guaranteed	...	...	...	...	...	...	11·5	...	37441	
	As found.	...	...	...	...	1·00	11·9	10·9	...	...	
206	As guaranteed	...	2·0	...	...	...	8·0	...	1·0	37442	
	As found	1·90	2·31	6·95	2·80	2·15	11·90	9·75	1·51	...	
255	As guaranteed	15·0	18·0	...	...	...	...	...	...	37443	
	As found.	15·68	19·04								
258	As guaranteed	...	...	...	...	...	...	...	48·0	37444	
	As found	...	...	...	...	...	...	...	48·30	...	
257	As guaranteed	...	...	...	...	...	...	...	50·0	37445	
	As found	...	...	...	...	...	...	...	51·15	...	
335	As guaranteed	0·82	1·0	4·0	2·0	1·0	7·0	6·0	6·0	37446	
	As found	0·77	0·94	8·55	0·25	2·85	11·55	8·70	5·88	...	
226	As guaranteed	2·06	2·3	6·0	2·0	1·0	9·0	8·0	3·0	37447	
	As found.	2·25	2·73	7·80	1·25	2·80	11·85	9·05	3·92	...	
(253)	As guaranteed	...	...	...	...	...	18·0	...	...	37448	
	As found.	...	...	...	...	...	21·35	...	...	...	
511	As guaranteed	4·0	5·0	...	...	...	...	8·0	6·0	37449	
	As found.	4·51	5·47	...	...	1·20	11·40	10·20	6·19	...	
510	As guaranteed	2·06	2·50	...	...	...	...	8·0	5·0	37450	
	As found	2·13	2·58	...	...	1·10	12·85	11·75	6·18	...	
548	As guaranteed	2·47	3·0	...	6·0	...	...	6·0	7·0	37451	
	As found.	3·07	3·73	...	...	0·45	9·70	9·25	7·96	...	
508	As guaranteed	1·0	1·22	...	...	...	...	9·0	8·0	37452	
	As found.	1·25	1·52	...	...	1·25	13·80	12·55	8·09	...	
507	As guaranteed	2·47	3·0	...	...	...	...	8·0	3·5	37453	
	As found.	2·93	3·55	...	...	1·10	11·55	10·45	3·68	...	

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF QUEBEC—								
1912.								
April 26	Fertilizer.	37454	Geo. Tanguay, Quebec.	. . . .	. . .	Vendor.	. . . . .	Nestor . . . . .
" 26	"	37455	" " . .	. . . . .	. . . .	"	. . . . .	Celtic . . . .
" 26	"	37456	" " . .	. . . . .	. . . .	"	. . . . .	. . . . .
" 24	"	37457	J. B. Reneand & Cie, Quebec.	. . . . .	. . .	Windsor Plaster Co., Windsor, N.S.	Mfrs.. . . .	Windsor Plaster Co., Windsor, N.S.
" 24	"	37458	" . .	. . . .	. . . .	" . .	"	. . . . .
" 24	" . . .	37459	" . .	. . . . .	. . . .	British Oil and Cake Mills Co.	"	. . . . .
" 24	"	37460	" . .	. . . .	. . .	" . .	. . . . .	. . . . .
" 24	"	37461	" . .	. . . .	. . .	" . .	. . . . .	. . . . .
DISTRICT OF ST. HYACINTHE—								
April 15	Tobacco Fertilizer.	39101	A. Desautels, Farnham.	3	jars	Lesage Packing and Fert. Co., Montreal.	. . . . .	. . . . .
" 15	Thomas Phosphate.	39102	" . .	3	"	" . .	. . . . .	. . . . .
" 15	Southern Guano.	39103	A. E. D. Artois & fils, Farnham.	3	"	The Nova Scotia Fert. Co., Montreal.	. . . . .	. . . . .
" 15	Acid Phosphate.	39104	" . .	3	"	" . .	. . . . .	. . . . .
" 15	Potato Grower	39105	" . .	3	"	" . .	. . . . .	. . . . .
" 15	Potato Manure.	39106	Berthiaume & Lanoue, Farnham	3	" . . .	Prov. Chem. and Fert. Co, St. John, N.B.	. . . . .	. . . . .
" 15	Victor Guano.	39107	" . .	3	"	" . .	. . . . .	. . . . .
" 15	Special Potato Phosphate.	39108	" . .	3	" . . .	" . .	. . . . .	. . . . .
" 15	Grain Phosphate	39109	" . .	3	"	" . .	. . . . .	. . . . .
" 16	Dissolved Phosphate.	39110	C. Payne, W. Shefford road, Granby	3	"	Buffalo Fert. Co., Buffalo, N.Y.	. . . . .	. . . . .
" 16	Farmers Choice.	39111	" " . .	3	"	" " . .	. . . . .	. . . . .
" 16	Bradleys Eclipse Phosphate	39112	" " . .	3	"	The Am. Agr. Chem. Co., New York.	. . . . .	. . . . .
" 16	Bradleys X L. Superphosphate of Lime	39113	" " . .	3	"	" " . .	. . . . .	. . . . .

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total including that of Nitric Acid or ammonia if present.	Nitrogen p.c. Total calculated as Ammonia.	Phosphoric Acid p. c. Soluble in Water.	Phosphoric Acid p. c. Reverted or Citrate Soluble.	Phosphoric Acid p. c. Insoluble.	Phosphoric Acid p. c. Total.	Phosphoric Acid p. c. Total available.	Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
509	As guaranteed	1 65	2·0	.....	.....	.....	.....	8·0	2 5	37454	
	As found.	2 18	2 64	.....	.....	1 05	11·35	10 30	3·05	.....	Meets guarantee.
512	As guaranteed	.....	.....	.....	.....	.....	.....	10 0	5·0	37455	"
	As found.	.....	.....	.....	.....	0 60	12·45	11·85	5·71	.....	"
547	As guaranteed	.....	.....	.....	14 0	.....	.....	.....	.....	37456	
	As found.	.....	.....	.....	16·44	0 66	17·10	16·44	.....	.....	"
.....	As guaranteed	.....	.....	.....	.....	.....	.....	.....	.....	37457	Plaster of Paris, contains no fertilizer ingredient.
	As found.	.....	.....	.....	.....	.....	.....	.....	.....	.....	
302	As guaranteed	.....	.....	.....	15·4	3·85	19·25	.....	.....	37458	
	As found.	.....	.....	.....	18·60	1·85	20·45	18·60	.....	.....	Meets guarantee.
299	As guaranteed	.....	.....	.....	.....	.....	.....	.....	48·0	.....	
	As found.	.....	.....	.....	.....	.....	.....	.....	47·90	37459	
443	As guaranteed	.....	.....	.....	.....	.....	.....	.....	50 0	.....	"
	As found.	.....	.....	.....	.....	.....	.....	.....	49 72	37460	
273	As guaranteed	15·0	18·0	.....	.....	.....	.....	.....	.....	.....	"
	As found.	14·74	17 90	.....	.....	.....	.....	.....	.....	37461	

J. C. ROULEAU, INSPECTOR.

448	As guaranteed	1 65	2·0	.....	5·0	1·0	6·0	5 0	5·0	.....	Meets guarantee.
	As found.	1·68	2 04	.....	.....	0·95	8·20	7·25	7·97	39101	
338	As guaranteed	.....	.....	.....	.....	2·0	14·0	12·0	.....	.....	"
	As found.	.....	.....	.....	13·84	2·91	16·75	13 84	.....	39102	
46	As guaranteed	.....	2·0	.....	.....	2·0	9 0	7·0	2 5	.....	"
	As found.	1 56	1 95	.....	.....	1 40	9 50	8·10	2 63	39103	
328	As guaranteed	.....	.....	.....	14 0	2·0	.....	14·0	.....	.....	"
	As found.	.....	.....	.....	.....	0·80	21·0	20·20	.....	39104	
452	As guaranteed	.....	2 0	.....	.....	.....	7·0	.....	2·0	.....	"
	As found.	2·42	2·94	.....	.....	.....	10·0	.....	2 51	39105	
70	As guaranteed	.....	2·0	.....	.....	.....	7·0	.....	4 0	.....	"
	As found.	1·86	2·24	.....	.....	.....	9 90	.....	5·89	39106	
										.....	"
68	As guaranteed	.....	2·0	.....	.....	.....	7 0	.....	2·5	39107	
	As found.	1 62	1·96	.....	.....	.....	9 80	.....	3·48	.....	"
63	As guaranteed	.....	2 5	.....	.....	.....	8 0	.....	6·0	39108	
	As found.	2·55	3·10	.....	.....	.....	10·85	.....	7·14	.....	"
67	As guaranteed	.....	.....	.....	.....	.....	12 0	.....	2 0	39109	
	As found.	.....	.....	.....	.....	.....	12 10	.....	2·81	.....	"
49	As guaranteed	.....	.....	.....	.....	.....	.....	14·0	.....	39110	
	As found.	.....	.....	.....	.....	1·55	16 90	15·35	.....	.....	"
55	As guaranteed	.....	1·0	.....	.....	.....	.....	8·0	5 0	39111	
	As found.	0 81	0 99	.....	.....	1 55	10 90	9 35	6 10	.....	"
4	As guaranteed	1·03	1·25	6·0	2·0	1·0	9 0	8 0	2 0	39112	
	As found.	1·13	1·38	4·70	5·10	1·20	11 00	9 80	4 68	.....	"
2	As guaranteed	2·0	2·5	6·0	2·0	1 0	9 0	8·0	1·5	39113	
	As found.	2 16	2 63	4·65	4·50	1 30	10·45	9 15	2·00	.....	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion).
						DISTRICT OF ST HYACINTHE		
1912.								
April 17	Victor Complete Fertilizer.	39114	Whitehead & Co., Waterloo, P.Q.	3 jars.		Capelton Chem. & Fert. Co., Buckingham.		
" 17	Capelton Fertilizer.	39115	" "	3 "		" "		
" 17	Reliance.	39116	" "	3 "		" "		
" 17	Pacific Potato Special.	39117	Taylor & Poirier, Waterloo, P.Q.	3 "		The Am. Agr. Chem. Co., New York.		
" 17	Pacific Guano.	39118	" "	3 "		" "		
" 18	Sterling Phosphate.	39119	Vanghan Bros., Magog.	3 "		Lowell Fert. Co., Boston.		No reg. number on bag.
" 18	Potato Manure	39120	" "	3 "		" "		"
" 18	Quebec Special	39121	B. E. Goyette, Magog.	3 "		Lesage Packing & Fert. Co., Montreal.		
" 18	Corn and Vegetable.	39122	" "	3 "		" "		
" 18	Royal Potato Manure.	39123	" "	3 "		" "		
" 18	Fish Guano.	39124	A. E. Rolston, Knowlton.	3 "		Buffalo Fert. Co., Buffalo, N. Y.		
" 18	Bradley's Potato Fertilizer.	39125	J. V. Lytle, Knowlton.	3 "		The Am. Agr. Chem. Co., New York		
" 18	Alkaline Bone with Potash	39126	"	3 "		"		
" 30	Bowker's Sure Crop Phosphate.	39127	W. Taylor, Windsor Mills Road, Richmond. P.Q.	3 "		Bowker Fert. Co. Boston.		
" 30	Bowker's Potato and Vegetable Phosphate.	39128	"	3 "		"		
" 30	Corn Phosphate.	39129	"	3 "		"		
" 30	Superphosphate with Potash.	39130	"	3 "		"		
" 30	Vermont Phosphate.	39132	"	3 "		"		
May 1	Royal Canadian.	39133	D. Brunet, Roug. St-Germain, Roxton Falls.	3 "		Capelton Chem. & Fert. Co., Buckingham.		
" 1	Thomas Phosphate.	39134	"	3 "		The Cross Fert. Co., Ltd., Sydney, N.S.		
" 1	Phosphate of Lime 39%.	39135	J. Banbertin, Roug. St-Germain, Roxton Falls.	3 "		Leeds Phosphate Works, Leeds, Eng.		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c.		Phosphoric Acid p.c.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total available.	Potash.		
Continued.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
83	As guaranteed	...	2 0	...	...	...	7·0	...	3 0	39114	
	As found.	2 13	2 59	...	...	...	10·95	...	3·30	...	Meets guarantee.
337	As guaranteed	...	...	...	...	...	...	7 0	...	39115	
	As found.	...	...	0 70	...	...	12 05	...	...	...	...
86	As guaranteed	2 0	...	...	...	...	...	6 0	2 0	39116	
	As found.	2 95	3 58	...	...	1 95	10·70	8 75	4·47	...	...
15	As guaranteed	2 06	2 50	6 0	2 0	1 0	9·0	8 0	3·0	39117	
	As found.	2·15	2 61	7·10	1 80	0 85	9·75	8·90	3·38	...	...
14	As guaranteed	2·06	2 50	6·0	2·0	1 0	9 0	8 0	1·5	39118	
	As found.	1·82	2 21	5·00	1 70	1·80	11·50	9 70	2·12	...	...
(372)	As guaranteed	0·82	1 0	4·0	4·0	1·0	9·0	8 0	4 0	39119	
	As found.	1·83	2 23	6·10	3·15	1·00	10·35	9 35	5·43	...	...
(460)	As guaranteed	1·64	2 0	4·0	3·0	1 0	8·0	7·0	1 0	39120	
	As found.	1·06	1·23	6 80	3·15	2·00	11·95	9 95	4·96	...	...
331	As guaranteed	1·0	1·25	....	5·0	1·0	6 0	...	3·0	39121	
	As found	0·91	1 11	6·25	0 05	0 65	6·95	6 30	3·63	...	...
447	As guaranteed	1·65	2·0	...	5·0	1 0	6 0	5 0	5·0	39122	
	As found.	1·50	1 82	...	7·15	0·30	7·55	7 15	5·62	...	...
449	As guaranteed	2·17	3·0	..	5·0	1·0	6 0	5 0	10·0	39123	
	As found	2 44	2·92	...	...	1·30	8·50	7·20	11·66	...	...
53	As guaranteed	...	1·0	...	...	...	...	9·0	2 0	39124	
	As found.	0·90	1·09	...	...	2·45	13·00	10·85	2 53	...	...
3	As guaranteed	2·06	2·50	6·0	2 0	1·0	9·00	8 0	3 0	39125	
	As found.	1·92	2·33	8·30	3 50	1 10	13·20	11·80	2 63	...	...
23	As guaranteed	...	...	9·0	2·0	1·0	12·0	11 0	2 0		
	As found.	...	...	8 70	1·85	1·90	12 45	10·55	2 05	39126	...
97	As guaranteed	0·82	1·0	6·0	2·0	1·0	9 0	8·0	2 0		
	As found	0·99	1·16	6·70	2·75	1·80	11·25	9 45	2 18	39127	...
92	As guaranteed	1 65	2 0	6 0	2 0	1 0	9 0	8 0	2 0		
	As found	1·82	2·21	9·0	3·05	2 05	14·10	12·05	2 51	39128	...
93	As guaranteed	1 65	2·0	6 0	2 0	1·0	9·0	8·0	2·0		
	As found.	1 71	2 08	7 50	2 15	2 25	11·90	9·65	3·03	39129	
99	As guaranteed	...	...	6 0	4 0	1·0	11·0	10 0	2 0		
	As found	...	...	9·25	3 15	2·0	14·40	12·40	2 78	39130	...
91	As guaranteed	2 47	3 0	6·0	2·0	1·0	9·0	8 0	4 0		
	As found.	2·61	3·17	7·0	3·10	1·55	11·65	10·10	3 98	39132	...
84	As guaranteed	...	4·0	...	...	...	9·0	...	5·6		
	As found.	3 90	4 74	...	...	1·45	11·05	9·60	4·75	39133	...
591	As guaranteed	...	...	...	13·6	...	...	...	...		
	As found.	...	...	...	15·20	0·65	15·85	15·20	...	39134	...
253	As guaranteed	...	...	...	...	...	18·0	...	...		
	As found	...	...	...	...	...	20 65	...	...	39135	...

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
								DISTRICT OF ST. HYACINTHE—
1912.								
May 1	Sterling Phosphate.	39136	McGrail & Massé, Roxton Falls.	3 jars.	...	Swift's Lowell Fert. Co., Boston.	...	...
" 1	Bone Fertilizer	39137	"	3 "	...	"	...	No reg. number
" 2	Jupiter	39138	J. E. Belivean, St. Leonard Jct.	3 "	...	Geo. Tanguay, Quebec.	...	Qualité autoriseé No. 1.
" 3	Complete Fertilizer.	39139	P. T. Legare, Victoriaville.	3 "	...	Mich. Carbon Works, Buffalo	...	...
" 3	Fruit and Vine	39140	"	3 "	...	"	...	...
" 3	Homestead Dissolved Bone.	39141	P. T. Legare, Victoriaville.	3 "	...	"	...	...
" 3	Potash Bone	39142	F. Mahew, Arthabaskaville.	3 "	...	Bowker Fert. Co., Boston.	...	...
" 6	Virginia Tobacco.	39143	P. T. Legare, St. Hyacinthe.	3 "	...	Michigan Carbon Wks., Buffalo.	...	...
								DISTRICT OF MONTREAL—
April 2	radley B	50801	Dupuy and Ferguson, Jac. C. Square, Montreal	3 "	...	...	...	...
" 2	nion, Potato and Tobacco.	50802	Wm Cooper & Co., 38 St. James St., Montreal.	3 "	...	Lesage Packing and Fert. Co., Ltd.	...	...
" 2	rocker's New General Crop	50803	Lepailleur & Frere, Lachine, P.Q.	3 "	...	...	...	Tags were mislaid and reg. No. did not appear on bags.
" 25	Crocker's Complete Manure	50804	"	3 "	...	...	...	"
" 26	Victor	50805	O. Goulet & fils, St Jacques.	3 "	...	Capelton Chem. and Fert. Co.,	...	...
" 26	Victor Guano	50806	A. Melanson, St. Jacques.	3 "	...	Provincial Chem. an Fert. Co., Ltd.	...	...
" 26	Victor	50807	E. Laurion, L'Epiphanie, P.Q.	3 "	...	Capelton Chem. and Fert. Co.	...	...
May 7	Montreal Special Potato Manure.	50808	Montreal Abbatoir Ltd, Montreal.	3 "	...	Vendors	...	...
" 7	rop Producer	50809	"	3 "	...	"	...	...
" 7	Early Truck and Vegetable Grower	50810	"	3 "	...	"	...	...
" 7	Gilt Edge Potato and Tobacco Manure	50811	"	3 "	...	"	...	...

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total including that of Nitric Acid or ammonia if present.	Nitrogen p.c. Total calculated as Ammonia.	Phosphoric Acid p.c. Soluble in Water.	Phosphoric Acid p.c. Reverted or Citrate Soluble.	Phosphoric Acid p.c. Insoluble.	Phosphoric Acid p.c. Total.	Phosphoric Acid p.c. Total Available.	Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
372	As guaranteed	0·82	1·0	4·0	4·0	1·0	9·0	8·0	4·0		
	As found.	0·92	1·12	7·50	2·70	2·0	12·20	10·20	4·11	39136	Meets guarantee.
(113)	As guaranteed	1·64	2·0	4·0	4·0	1·0	9·0	8·0	3·0		
	As found.	1·60	1·95	6·50	2·85	1·05	10·40	9·35	3·47	39137	"
(510)	As guaranteed	2·06	2·5	.....	.....	.....	.....	8·0	5·0	39138	"
	As found.	2·31	2·87	7·06	2·60	2·00	11·60	9·60	6·18		
206	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	39139	"
	As found.	1·77	2·15	8·05	1·90	1·45	11·40	9·95	4·59		
212	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	10·0		
	As found.	1·80	2·19	6·60	2·95	1·95	11·40	9·55	19·52	39140	"
202	As guaranteed	.....	.....	10·0	2·0	1·0	13·0	12·0	.....	39141	
	As found.	.....	.....	10·00	3·65	2·25	16·10	13·25	.....		"
98	As guaranteed	0·82	1·0	4·0	2·0	1·0	7·0	6·0	2·0	39142	
	As found.	0·93	1·13	6·25	2·40	1·25	9·90	8·65	2·55	.....	"
207	As guaranteed	1·65	2·0	6·0	2·0	1·0	9·0	8·0	4·0	39143	
	As found.	1·69	2·01	8·95	1·05	1·95	11·95	10·00	6·33	.....	"
J. J. COSTIGAN, INSPECTOR.											
259	As guaranteed	0·82	1·0	6·0	2·0	1·0	9·0	8·0	4·0	50801	
	As found.	0·99	1·20	7·00	3·30	1·90	12·20	10·30	5·33	.....	Meets guarantee.
162	As guaranteed	1·65	2·0	.....	7·0	1·0	8·0	.....	5·0	50802	
	As found.	1·26	1·53	.....	.....	3·0	9·65	6·65	4·09	.....	"
(301)	As guaranteed	0·82	1·0	6·0	2·0	1·0	9·0	8·0	1·0	50803	
	As found.	1·13	1·37	6·95	1·20	3·15	11·30	8·15	1·61	.....	"
(193)	As guaranteed	0·82	1·0	6·0	2·0	1·0	9·0	8·0	4·0	50804	
	As found.	1·14	1·38	7·30	2·50	2·60	12·40	9·80	3·84	.....	"
83	As guaranteed	.....	2·0	.....	.....	.....	7·0	.....	3·0	50805	
	As found.	1·68	2·04	.....	.....	.....	11·20	.....	3·34	.....	"
68	As guaranteed	.....	2·0	.....	.....	.....	7·0	.....	2·5	50806	
	As found.	1·78	2·16	.....	.....	.....	10·0	.....	4·26	.....	"
83	As guaranteed	.....	2·0	.....	.....	.....	7·0	.....	3·0	50807	
	As found.	1·71	2·07	.....	.....	.....	11·80	.....	3·51	.....	"
556	As guaranteed	.....	1·0	.....	.....	.....	.....	8·0	5·0	50808	
	As found.	1·14	1·38	.....	10·10	1·55	11·65	10·10	4·71	.....	"
554	As guaranteed	.....	1·25	.....	.....	.....	.....	10·0	.....	50809	
	As found.	1·16	1·40	.....	.....	3·60	14·15	10·55	.....	.....	"
553	As guaranteed	.....	4·0	.....	.....	.....	.....	6·0	8·0	50810	
	As found.	3·14	3·81	.....	.....	1·50	10·45	8·95	8·57	.....	"
555	As guaranteed	.....	3·0	.....	.....	.....	.....	7·0	10·0	50811	
	As found.	2·70	3·28	.....	.....	1·35	10·30	8·95	10·26	.....	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF MONTREAL—
1912.								
May 11	Celery and Potato.	50812	Thos. Cogland, Herdman, P.Q.	3 jars.	....	Bowker Fert. Co.	.....	.....
" 11	Fish Guano.	50813	" "	3 "	..	" "	.....	.....
" 11	Ideal Wheat and Corn.	50814	" "	3 "	....	"	.....	.....
" 11	Farmers Choice.	50815	" "	3 "	....	" "	.....	.....
" 14	Alkaline Bone with Potash.	50816	Wm. Anderson, Athelstan, P.Q.	3 "	....	.....	.....	.....
" 14	Bradley B....	50817	" "	3 "	....	Am. Agr. Chem. Co.	.....	.....
" 14	Milsoms Special Bean and Grain.	50818	" "	5 "	.....	.....	.....	.....
" 17	Complete.....	50819	Moïse Dubois, St. Thérèse De Blainville, P.Q.	3 "	....	Mich Carbon Works.	.....	.....
" 17	Garden and Vegetable.	50820	" "	3 "	..	"	.....	.....
" 17	Bowkers Superphosphate with Potash.	50821	Alex. MacCubbin, St. Thérèse De Blainville, P.Q.	3 "	....	Bowker Fert. Co.	.....	.....
								DISTRICT OF OTTAWA—
April 16	Capelton No. 1	49085	The Capelton Chem. Fert. Co., Buckingham.	3 jars.	Nil.	Vendors.....	.....	.....
" 16	Royal Canadian.	49086	" "	3 "	"	"	.....	.....
" 16	Potato Special	49087	" "	3 "	"	"	.....	.....
" 16	Eureka Tobacco Special.	49088	" "	3 "	"	"	.....	.....
" 16	Victor.....	49089	" "	3 "	"	"	.....	.....
" 16	Reliance.....	49090	" "	3 "	"	"	.....	.....
" 16	Bradley's New Method.	49091	H. Brown & Sons, Brockville.	3 "	"	Am. Agr. Chem. Co., New York	.....	.....
" 16	Bradley's B.D. Sea Fowl Guano.	49092	"	3 "	"	"	.....	.....
" 16	Sure Growth..	49093	Booth Bros., Brockville.	3 "	"	The W. A. Freeman, Co., Ltd., Hamilton.	.....	.....
" 16	Pure Bone Meal.	49094	"	3 "	"	"	.....	.....
" 16	Potato Manure	49095	"	3 "	"	"	.....	.....
" 16	Canadian Manure.	49096	"	3 "	"	"	.....	.....

FERTILIZERS AS SOLD.

Concluded.

Registration Number.	Analysis of Sample	Number of Sample.	Results of Analysis. Nitrogen p. c. Total including that of Nitric Acid or ammonia if present.	Nitrogen p. c. Total calculated as Ammonia.	Phosphoric Acid p. c. Soluble in Water.	Phosphoric Acid p. c. Reverted or Citrate Soluble.	Phosphoric Acid p. c. Insoluble.	Phosphoric Acid p. c. Total.	Total Available.	Potash.	Remarks and Opinion of the Chief Analyst.
			p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
57	As guaranteed		....	2 0	..	..	..	..	8 0	10·0	50812	
	As found.		1 01	1·22	..	....	2·45	11 95	9 50	8 95	....	Meets guarantee.
53	As guaranteed		.....	1 0	..	..	..	..	9 0	2 0	50813	
	As found		1·02	1·24	..	..	2 05	12 00	9 95	3·70	....	"
56	As guaranteed		..	2·0	..	..	..	..	9 5	5 0	..	
	As found.		1 68	2 04	..	..	2 15	13 60	11 45	6 81	50811	
55	As guaranteed		....	1 0	..	..	..	..	8 0	5 0	....	
	As found.		0·99	1·20	..	..	2 25	11 55	9 30	5·90	50815	
378	As guaranteed		..	..	9 0	2 0	1 0	12 0	11 0	2 0	..	
	As found.		..	..	9 80	1 20	1 65	15 65	14 0	3 09	50816	
259	As guaranteed		0·82	1 0	6 0	2 0	1·0	9 0	8 0	1 0	..	
	As found		0 89	1 09	7·00	2 35	1 40	10 75	9 35	5 31	50817	
263	As guaranteed		..	..	8 00	2 0	1 0	11 0	10·0	8 0	..	
	As found		..	..	9 10	1 35	1 50	12 25	10 75	8·56	50818	
20	As guaranteed		1·65	2 0	6 0	2 0	1 0	9 0	8 0	1 0	..	
	As found		1 84	2 21	8 50	1 20	2 55	12 25	9 70	1 10	50819	
210	As guaranteed		1·65	2 0	6 0	2 0	1 0	9 0	8 0	6·0	..	
	As found.		1 61	1 96	7 75	1 05	2·50	11·30	8·80	7 36	50820	
402	As guaranteed		..	...	6 0	1 0	1·0	11·0	10 0	2 0	..	
	As found		..	..	8·20	1·30	2·60	15·10	12·50	2 10	50821	

J. A. RICKEY, INSPECTOR.

81	As guaranteed	..	..	..	..	..	..	..	10 0	..	49085	
	As found.	..	..	..	..	6 35	16 00	9 65	..	..	..	Meets guarantee.
84	As guaranteed	....	1 0	..	....	..	9 0	..	5 0	49086		
	As found.	3 88	1·71	..	..	..	11 25	..	6·64	....	"	
336	As guaranteed	..	2 0	..	..	..	..	6 0	8·0	49087		
	As found	2·40	2 91	..	..	3·65	10·10	6·45	8·03	..		
85	As guaranteed	..	3 0	..	..	..	..	5 0	4·0	49088		
	As found.	2·67	3·25	..	..	3 50	8 65	5·15	5·0	..	"	
83	As guaranteed	....	2 0	..	..	..	..	7·0	3·0	49089		
	As found.	1·74	2·11	..	..	3·10	10 50	7 10	3·72	..		
86	As guaranteed	..	2 0	..	..	..	6·0	..	2·0	49090		
	As found.	2 01	2·48	..	..	..	9·55	..	3·61	..		
379	As guaranteed	0 82	1·0	6 0	2·0	1·0	9·0	8·0	2·0	49091	"	
	As found	1·12	1·36	4 90	1·50	2·25	11·65	9·40	2·68			
88	As guaranteed	2 0	2·5	6·0	2·0	1·0	9·0	8·0	1·5	49092		
	As found	2·31	2·81	7·50	1·75	2·55	11·80	9·25	2·39			
144	As guaranteed	2·89	3·5	5·0	3·0	0·25	8·25	8·0	3·0	49093		
	As found.	3·69	1·48	1·0	5·15	3·80	12·95	9 15	3 41			
146	As guaranteed	2 47	3·0	..	20·0	1·0	21 0	20 0	..	49094		
	As found.	4·27	5·19	..	11·04	10·09	21·15	11·04	..			
145	As guaranteed	2·47	3 0	5·0	3·0	0·25	8 25	8·0	5·0	49095		
	As found	1·48	5·44	4·60	3·95	3·35	12 90	9·55	6·08			
375	As guaranteed	2·47	..	5·5	2·5	0·50	8 5	8 0	1·5	49096		
	As found.	1·92	2 33	6·55	4·50	3·75	13 80	10·05	2·81			

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1912.								
April 16	Read's Standard Superphosphate.	49097	A. E. Cameron, Brockville.	3 jars.	Nil.	Am. Agr. Chem. Co., N.Y.	.....	.....
" 16	Read's Practical Potato Special.	49098	"	3 "	"	"	.....	.....
" 16	Read's High Grade Special.	49099	"	3 "	"	"	.....	.....
" 16	Read's Farmers Friend Superphosphate.	49100	"	3 "	"	"	.....	.....
" 17	Corn Special..	50190	Capelton Chem. & Fert Co., Buckingham.	3 "	"	Vendors.....	.....	.....
" 17	Capelton.....	50191	"	3 "	"	"	.....	.....
" 19	Lawn.....	50192	"	3 "	"	"	.....	.....
" 10	Lawn Fertilizer.	50193	Graham Bros., Ottawa.	3 "	"	The W. A. Freeman Co., Ltd., Hamilton.	.....	No. reg. number on bags.
" 19	Bradley's Complete Manure	50194	"	3 "	"	Am. Agr. Chem. Co.	.....	.....
" 19	Celery & Early Vegetable Manure.	50195	K. McDonald & Sons, Ottawa.	3 "	"	W. A. Freeman Co., Ltd. Hamilton.	.....	.....
DISTRICT OF TORONTO—								
April 15	Harab No. 5 A "Orchard" Brand.	49401	The Harris Abattoir Co., Ltd., Toronto.	4 lbs.	15	Vendors.....	.....	.....
" 15	Harab No. 4 A "Berry" Brand.	49402	"	4 "	15	"	.....	.....
" 15	Harab No. 13 A Beet (Sugar).	49403	"	4 "	15	"	.....	.....
" 15	Harab A No. 7, Potash Compound.	49404	"	4 "	15	"	.....	.....
" 16	Harab A No. 6, "Cereal" Brand.	49405	"	4 "	15	"	.....	.....
" 16	Harab A No. 12, Beans Brand.	49406	"	4 "	15	"	.....	.....

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total including that of Nitric Acid or ammonia if present.	Nitrogen p.c. Total calculated as Ammonia.	Phosphoric Acid p.c. Soluble in water.	Phosphoric Acid p.c. Reverted or Citrate Soluble.	Phosphoric Acid p.c. Insoluble.	Phosphoric Acid p.c. Total.	Phosphoric Acid p.c. Total Available.	Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.											
		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
383	As guaranteed	6·82	1·0	6·0	2·0	1·0	9·0	8·0	4·0	49097	Meets guarantee.
	As found.	0·80	0·97	6·70	2·70	1·95	11·35	9·40	1·11		
382	As guaranteed	0·82	1·0	3·0	1·0	1·0	5·0	4·0	8·0	49098	"
	As found.	1·01	1·27	3·5	1·6	1·45	6·55	5·10	7·74		
232	As guaranteed	...	.....	10·0	2·0	1·0	13·0	12·0	5·0	49099	
	As found.	....	.... ..	11·10	1·13	0·92	13·15	12·23	6·16		"
384	As guaranteed	2·0	2·5	6·0	2·0	1·0	9·0	8·0	3·0	49100	
	As found.	2·10	2·55	6·15	2·80	2·05	11·0	8·95	3·11		"
82	As guaranteed	... ..	1·0	.....	.	...	.....	7·0	3·0	50190	
	As found.	1·45	1·77	....		..	11·15	.. ...	4·03		"
337	As guaranteed	.. .	... —	.. ..	.....	.....	.....	7·0		50191	
	As found.	.. ..	.	.....	.. ....	4·35	11·75	7·40			"
481	As guaranteed	.... ..	2·0	... .	... ...	.....		6·0	8·0	50192	
	As found.	1·81	2·20	..... .	... ...	3·30	10·05	6·75	8·68		"
(157)	As guaranteed	.....	3·0	.....	.....	.. .	9·0	.	4·0	50193	
	As found.	3·23	3·92	.....	. ....		10·85	.	6·29		"
394	As guaranteed	3·0	4·0	6·0	2·0	1·0	9·0	8·0	7·0	50194	
	As found.	2·14	2·60	9·75	2·55	0·50	12·80	12·30	8·56		"
184	As guaranteed	4·12	5·0	5·5	3·5	0·25	9·25	9·0	5·0	50195	
	As found.	1·91	5·96	4·05	3·80	2·20	10·05	7·85	7·93		"

H. J. DAGER, INSPECTOR.

475	As guaranteed	2·0	.....	.....	.....	...	4·0	..	5·0	49401	
	As found.	2·32	2·81	.....	.....	...	7·50	.....	6·89	. ..	Meets guarantee.
474	As guaranteed	2·0	.....	.....	.....	.. .	7·0	.....	5·0	49402	
	As found.	1·75	2·13	.....	.....	...	9·30	...	5·56	. . .	"
481	As guaranteed	3·0	.....	.....	.....	.....	7·0	....	8·0	49403	
	As found.	2·39	2·91	.....	.....	...	7·65	.....	8·00	..	"
476	As guaranteed	2·0	.....	.....	.....		7·0	.....	8·0	49404	
	As found.	1·83	2·23	.....	.....	. .	8·35	....	7·60	....	"
291	As guaranteed	2·0	2·4	... .	.....	.....	12·5	9·0	3·0	49405	
	As found.	3·71	4·50	.....	.....	3·63	11·26	7·63	5·15	.....	"
480	As guaranteed	2·0	.....	.....	... ...	....	8·0	....	8·0	49406	
	As found.	1·97	2·39	.....	.....	.....	10·65	....	10·80	.....	"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report. (Is not an expression of Opinion).
								DISTRICT OF TORONTO—
1912.								
April 16	Harab A No. 9, Blood and Beef.	49407	The Harris Abatoir Co., Ltd., Toronto.	4 lbs.	15	Vendors.		
" 16	Harab A No. 1, Potash Special.	49408	"	4 "	15	"		
" 16	Harab A, General Garden.	49409	"	4 "	15	"		
" 16	Harab A No. 15, "Corn" Brand.	49410	"	4 "	15	"		
" 16	Davies' Potato Special.	49411	Wm. Davies Co., Ltd., Toronto.	4 "	15	"		
" 16	Davies' General Crop.	49412	"	4 "	15	"		
" 16	Davies' Pure Bone Meal.	49413	"	4 "	15	"		
" 16	Davies' Blood Meal.	49414	"	4 "	15	"		
" 17	Davies' General Veg. and Market Garden.	49415	"	4 "	15	"		
" 17	Davies Tobacco Grower.	49416	"	4 "	15	"		
" 17	Davies Sugar Beet Manure.	49417	" "	4 "	15	"		
" 17	Davies Greenhouse Special	49418	" "	4 "	15	"		
" 19	Davies Soluble Bone and Potash.	49419	" "	4 "	15	"		
" 19	Davies Complete Manure for Roots	49420	" "	4 "	15	"		
" 19	Davies Lawn Dressing.	49421	" "	4 "	15	"		
" 19	Davies Cereal Fertilizer.	49422	" "	4 "	15	"		
" 19	H. Brand.....	49423	Wm. Harris & Co., Toronto.	4 "	15	"		Sample taken from quantity in storage room.
" 22	Sure Growth Manure.	49424	Wm. A. Freeman Co., Ltd., Hamilton.	4 "	15	"		
" 22	Potato Manure	49425	" "	4 "	15	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p. c. Total including that of Nitric Acid or ammonia if present	Nitrogen p. c. Total calculated as Ammonia.	Phosphoric Acid p.c. Soluble in Water.	Phosphoric Acid p.c. Reverted or Citrate Soluble.	Phosphoric Acid p.c. Insoluble.	Phosphoric Acid p.c. Total.	Phosphoric Acid p.c. Total available.	Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Continued.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
477	As guaranteed	7 0					6 0			49407	
	As found.	5 28	6 41				8 30				Low in nitrogen but phosphoric acid compensates.
471	As guaranteed	3 0					6 0		8 0	49408	
	As found	2 24	2 72				8 50		8 96		Meets guarantee.
472	As guaranteed	3 0					7 0		3 0	49409	
	As found	3 20	3 89				8 70		3 48		"
483	As guaranteed	2 0					9 0		1 0	49410	
	As found.	2 35	2 86				10 50		3 90		"
360	As guaranteed	3 3	4 0	1 0	5 0	2 0	8 0	6 0	8 0	49411	
	As found.	3 67	4 45	3 10	5 30	1 20	9 60	8 40	8 22		"
249	As guaranteed	2 47	3 0				10 0	8 0	2 0	49412	
	As found.	2 31	2 81			1 30	11 85	10 55	1 87		"
241	As guaranteed	3 29	4 0				20 0			49413	
	As found.	3 08	3 74				25 40				"
371	As guaranteed	11 51	14 0							49414	
	As found.	10 72	13 02								"
362	As guaranteed	4 11	5 0	1 0	6 0	2 0	9 0	7 0	5 0	49415	
	As found.	5 02	6 20	1 65	12 28	4 10	16 07	13 93	4 87		"
368	As guaranteed	4 11	5 0	1 0	6 0	2 0	9 0	7 0	6 0	49416	
	As found.	3 77	4 58	1 00	11 10	1 00	11 30	12 70	3 78		"
370	As guaranteed	3 3	4 0	1 0	5 0	2 0	8 0	6 0	8 0	49417	
	As found.	4 51	5 48	1 25	7 70	1 90	10 85	8 95	9 98		"
367	As guaranteed	4 11	5 0	5 0		0 5	5 5	5 0	5 0	49418	
	As found.	3 87	4 70	2 50	4 86	1 89	9 25	7 36	4 79		"
369	As guaranteed	1 64	2 0	3 0	5 0	2 0	10 0	8 0	5 0	49419	
	As found.	1 81	2 20	3 65	4 85	2 05	10 55	8 50	4 60		"
365	As guaranteed	2 88	3 5	3 0	5 0	2 0	10 0	8 0	6 0	49420	
	As found.	2 77	3 36	2 50	5 30	3 05	10 85	7 80	6 60		"
361	As guaranteed	3 3	4 0	1 0	5 0	2 0	8 0	6 0	3 0	49421	
	As found.	5 04	7 33	1 20	5 30	3 10	9 60	6 50	4 56		"
364	As guaranteed	2 06	2 5	6 0	3 0	2 0	11 0	9 0	2 0	49422	
	As found.	1 76	2 13	3 30	5 50	5 35	14 15	8 80	1 91		"
(285)	As guaranteed	7 15	8 69	0 67	3 90	2 74	7 31	4 57		49423	
	As found.	6 91	8 40	0 56	8 19	1 75	10 50	8 75			"
144	As guaranteed	2 89	3 5	5 0	3 0	0 25	8 25	8 0	3 0	49424	
	As found.	2 03	2 47	4 55	5 15	3 30	13 00	9 70	4 11		"
145	As guaranteed	2 47	3 0	5 0	3 0	0 25	8 25	8 0	5 0	49425	
	As found.	2 07	2 51	4 40	4 45	2 80	11 65	8 85	5 13		"

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF TORONTO—
1912.								
April 22	Lawn Fertilizer.	49426	Wm. A. Freeman Co., Ltd., Hamilton.	4 lbs.	15	Vendors		
" 22	Bone and Potash.	49427	" "	4 "	15	"		
" 23	Bradleys B. D. Sea Foul Guano.	49428	Titterington Bros., St. Catherines.	4 "	15	Am. Agr. Chem. Co., Buffalo.		
" 23	Crockers, N. Y., Special Phosphate.	49429	" "	4 "	15	" "		
" 23	Complete Manure for Potatoes and Vegetables.	49430	" "	4 "	15	" "		
" 23	Crockers Best Potash.	49431	Titterington Bros., St. Catharines.	4 "	15	Am. Agr. Chem. Co., Buffalo.		
" 23	Fine Ground Bone.	49432	St. Catharines Cold Storage & Forwarding Co. Ltd. St. Catharines.	4 "	15	Am. Agr. Chem. Co., New York		
" 23	Fine Steamed Bone.	49433	"	4 "	15	Wm. Davies Co, Ltd., Toronto.		
" 25	Crocker's Wheat & Corn Fertilizer.	49434	O. J. Smith, Attercliffe Stn.	4 "	15	Am. Agr. Chem. Co., Buffalo, N. Y.		
" 25	Crockers Complete Manure	49435	"	4 "	15	"		
" 25	Crockers Practical Potato Fertilizer.	49436	"	4 "	15	"		
" 15	Crockers High Grade Special Fertilizer.	49437	"	4 "	15	"		
" 25	National Fertilizer No. 1 Brand.	49438	J. W. Emerson, Attercliffe Stn.	4 "	15	The National Land Fruit Packing Co., Montreal.		Noreg. number on bags.
" 25	Farmer's Choice.	49439	B. L. Edgecombe, Dunnville.	4 "	15	Buffalo Fert. Co. Buffalo, N. Y.		
" 25	Celery & Potato Special.	49440	"	4 "	15	"		
" 25	Vegetable & Potato.	49441	"	4 "	15	"		
" 25	General Favourite.	49442	"	4 "	15	"		
" 25	Fish Guano...	49443	"	4 "	15	"		
" 25	Ideal Wheat & Corn.	49444	"	4 "	15	"		
" 25	Celery & Early Vegetable	49445	J. E. Bell, Cooksville.	4 "	15	Wm. A. Freeman Co., Ltd. Hamilton.		
" 30	Manure.							

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Continued.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total including that of Nitric acid or ammonia if present.	Nitrogen p.c. Total calculated as Ammonia.	Phosphoric Acid, p.c. Soluble in water.	Phosphoric Acid, p.c. Reverted or Citrate Soluble.	Phosphoric Acid, p.c. Insoluble.	Phosphoric Acid, p.c. Total.	Total available.	Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
157	As guaranteed	2·47	3·0	5·5	3·5	0·25	9·25	9 0	4·0	19426	Meets guarantee.
	As found.	2 39	2·94	6·00	6·10	1·00	13 10	12·10	3 57		
147	As guaranteed	1 65	2·0	5·5	3·5	0 25	9·25	9 0	6·0	19427	"
	As found.	2 12	2·58	5·35	4 35	3·45	13·15	9 70	6·18		
188	As guaranteed	2 06	2 5	6·0	2·0	1 0	9·0	8 0	1·5	19428	"
	As found.	2 15	2·61	6·40	3·95	2·55	12·85	10·35	2 87		
192	As guaranteed	.. ..	.....	8·0	2·0	1·0	11·0	10·0	8 0	19429	
	As found.	.. ..	..	8 35	4·65	1·15	14·35	13·20	9·10		"
391	As guaranteed	3 29	4 0	6·0	2·0	1·0	9·0	8·0	7 0	19430	
	As found.	2 49	3·03	6 75	3 60	1 90	12 25	10·35	6 96		"
194	As guaranteed	1 65	2·0	6 0	2 0	1 0	9 0	8 0	10 0	19431	"
	As found.	1 26	1·46	6 90	2 65	2·10	11 65	9 55	12 39		
238	As guaranteed	2 47	3·0	.....	.....	.....	22 88	.		19432	
	As found.	2 99	3 63	.... .	... .	. .	24 10			.. ..	"
366	As guaranteed	4 93	6 0	.....	.....		22 0		...	19433	
	As found.	4 93	5 98	....	.....		22 10	...	....	...	"
195	As guaranteed	2 06	2 5	6·0	2 0	1 0	9 0	8 0	1 5	19434	
	As found.	1 58	1 92	8 10	3 30	1·25	12 65	11 40	4 36	..	"
380	As guaranteed	0 82	1 00	6 0	2 0	1·0	9 0	8 0	1·0	19435	
	As found.	0 93	1 13	2 65	3 95	1·55	8·05	6 60	8 77	....	"
198	As guaranteed	0 82	1 0	3 0	1·0	1·0	5 0	4 0	8 0	19436	
	As found.	1 08	1·31	3 50	2·55	1 60	7 65	6 05	8 30		"
381	As guaranteed	1 65	2 0	6 0	2·0	1 0	9 0	8 0	4 0	19437	
	As found.	1 05	1·28	7·45	1·95	1 75	11·15	9 40	5 32		"
(606)	As guaranteed	1 3	.... ..	3 5	....			.	0 5	19438	
	As found.	1 84	2 24	6·15	....		8 10	.....	1 22		"
55	As guaranteed	.... .	1 0	. .	... .		.. ...	8 0	5 0	19439	
	As found.	1 18	1·43	5 25	3 85	2 35	11 45	9 10	5 25	.	"
57	As guaranteed	...	2 0	...	...	...	...	8 0	10 0	19440	
	As found.	2 23	2 71	.	...	1 70	11·00	9·30	10 04	....	"
58	As guaranteed	.....	3 0	....	.. ....	.....	. .	8·0	7 0	19441	
	As found.	2 22	2·70	. . . .	.....	1·65	10 80	9 15	9 64	....	"
54	As guaranteed	.	1 5	.....	. . .			8 0	2 5	19442	
	As found.	1 53	1·86	.. .. ..	.	1 60	10 90	9 30	4 78	.	"
53	As guaranteed	..	1 0	.....	. .	.	..	9 0	2 0	19443	
	As found.	1 31	1 59	.. .	... ..	1 65	11·35	9 70	3 32	.	"
56	As guaranteed	..	2 0	... ..	..		.....	9 0	5 0	19444	
	As found.	1 83	2 23	.....	...	1 35	10 85	9·50	5 25	..	"
147	As guaranteed	1 65	2 00	5·50	3·50	0·25	9·25	9 00	6 0	19445	
	As found.	3 43	4·17	4 80	5·55	1 35	11·70	10 35	6 24	.	"

BULLETIN No. 242—

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1912.								
April 30	Bradley's Potato Fertilizer.	49446	John Cunningham, Cooksville.	4 lbs.	15	Am. Agr. Chem. Co., Buffalo, N. Y.		
May 1	Garden Truck.	49447	A. H. Spera, Stoney Creek.	4 "	15	Buffalo Fert. Co., Buffalo, N. Y.		
" 1	Dissolved Phosphate.	49448	J. F. Galbraith, Stoney Creek.	4 "	15	"		
" 1	High Grade Manure.	49449	W. Clark, Stoney Creek.	4 "	15	"		
" 3	High Grade Potash Compound.	49450	A. Skook, Oakville	4 "	15	Am. Agr. Chem. Co., Buffalo.		
" 4	High Grade Ground Blood	49500	Geo. Hollis, Shaw st., Toronto.	4 "	15	"		Guaranteed analysis is so indistinct, is not readable.
DISTRICT OF LONDON—								
May 7	Farmers Choice.	48253	G. Carter, Son & Co., St. Mary's.	4 jars.	Nil	Buffalo Fert. Co., Buffalo.		
" 7	Wheat and Corn.	48254	"	4 "	"	"		
" 7	Celery and Corn.	48255	"	4 "	"	"		
" 8	Davies Lawn Dressing.	48260	J. T. Eidt, Berlin.	4 "	15	Wm. Davies Co., Toronto.		
" 8	Early Celery and Potato.	48261	I. Hohman, Berlin.	4 "		Freeman Co., Hamilton.		
" 8	Sure Growth.	48262	"	4 "	20	"		
" 8	Potato Manure	48263	"	4 "		"		
DISTRICT OF WINDSOR—								
May 2	Sure Growth.	48229	W. W. Nawcekville, Ingersoll.	3 jars.	Nil	W. A. Freeman, Hamilton.		
" 2	Potato Manure	48230	"	3 "	"	"		
" 2	XXX Potato.	48231	Wm. Stone & Sons Co., Ingersoll.	3 "	"	Vendors.		
" 2	Grain & Root.	48232	"	3 "	"	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c.		Phosphoric Acid p.c.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia.	Soluble in water.	Reverted or Citrate Soluble	Insoluble.	Total.	Total available.	Potash.		
Concluded.											
		p.c	p.c	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
392	As guaranteed	2·06	2·5	6	2	1	9	8	3	49146	
	As found	2·03	2·47	6·50	0·95	3	10·45	7·45	4·24		Meets guarantee.
59	As guaranteed		1					8	7	49147	
	As found	3·19	3·88			1·65	11·10	9·45	6·80		"
49	As guaranteed							11		49148	
	As found					1·60	15·25	13·65			"
60	As guaranteed		4					7	10	49149	
	As found	3·12	3·79			1·35	11·15	9·80	11·58		"
182	As guaranteed	1·65	2	6	2	1	9	8	10	49150	
	As found	1·69	2·05	7·50	0·05	3·15	10·70	7·55	11·01		"
(311	As guaranteed	9·87	12							19500	
	As found	9·66	11·73	0·95	0·75	0·75	2·45	1·70			"

JNO. TALBOT, ACTING INSPECTOR

55	As guaranteed		1					8	5	48253	
	As found	0·87	1·05	5·30	2·45	3·90	11·65	7·75	4·58		Meets guarantee.
56	As guaranteed		2					9	5	48254	
	As found	1·81	2·20	4·60	3·64	2·86	11·10	8·24	3·97		"
57	As guaranteed		2					8	10	48255	
	As found	1·14	1·34	1·63	4·52	3·60	9·75	6·15	6·80		Not for sale.
361	As guaranteed	3·3	4	1	5	2	8	6	3	48260	
	As found	3·35	1·06	0·75	7·55	2·20	10·50	8·30	2·63		Meets guarantee.
148	As guaranteed	4·12	5	5·5	3·5	0·25	9·25	9	5	48261	
	As found	3·82	4·61	6·15	2·60	2·00	10·75	8·75	6·75		"
144	As guaranteed	2·89	3·5	5	3	0·25	8·25	8	3	48262	
	As found	2·34	2·84	5·10	2·60	4·20	12·00	7·80	2·90		"
145	As guaranteed	2·47	3	5	3	0·25	8·25	8	5	48263	
	As found	2·39	2·90	5	4·30	3·75	13·05	9·30	5·10		"

JNO. TALBOT, INSPECTOR.

144	As guaranteed	2·89	3·5	5	3	0·25	8·25	8	3	48229	
	As found	2·18	2·65	7·15	4·45	2·60	15·50	12·90	2·90		Meets guarantee.
145	As guaranteed	2·47	3·00	5	3	0·25	8·25	8	5	48230	
	As found	2·17	2·64	5·10	1·60	3·85	13·55	9·70	4·98		"
546	As guaranteed	1·64	2	6·5	1·5	1·25	9·25	8	6	48231	
	As found	2·05	2·49	7·20	4·30	2·95	14·45	11·50	6·00		"
545	As guaranteed	1·64	2	6·5	1·5	1·25	9·25	8	2	48232	
	As found	2·05	2·49	6·75	3·35	2·20	12·30	10·10	3·26		

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF WINDSOR—
1913.								
May 2	Garden Truckers.	48233	Wm. Stone & Sons Co., Ingersoll.	3 jars.	Nil	Vendors.		
" 2	Bone, Blood and Potash.	48234	"	3 "	"	"		
" 2	Corn, Wheat and Oats.	48235	"	3 "	"	"		
" 3	New York Special.	48241	McIntosh Coal Co., Woodstock.	3 "	"	Crocker Fert. Wks., Buffalo.		
"	Potato Manure	48242	A. Hastings & Son, Woodstock.	3 "	"	W. A. Freeman Co., Ltd., Hamilton.		
" 3	Nitrate of Soda	48243	"	3 "	25	"		
" 3	Homestead Bone Black.	48244	A. Patriek, Woodstock.	3 "	"	Mich. Carbon Wks., Detroit.		
" 6	Tobacco Manure.	48250	Saml. Glenn & Son, Chatham.	3 "	"	Stone Sons, Ltd., Ingersoll.		
" 6	Special Beet Fertilizer.	48251	Jas. D. Soutar, Chatham.	3 "	"	Mich. Carbon Wks., Detroit.		
" 6	Garden and Vegetable.	48252	"	3 "	"	"		
" 9	Bone Meal.	48270	Hewer Seed Co., Guelph.	3 "	10	W. A. Freeman Co., Hamilton.		
" 9	Lawn Dressing.	48271	"	3 "	10	"		
" 9	Bone Black.	48272	Massey-Harris, Guelph.	3 "	Nil.	Mich. Carbon Wks., Detroit.		
" 9	Nitrate of Soda	48273	O. H. Killer, Stratford.	3 "	15	Nitrate Agencies Co., New-York		
" 9	Acid Phosphate.	48274	"	3 "	10	"		
" 9	Muriate of Potash.	48275	J. A. Andrew, Stratford.	3 "	25	"		
								DISTRICT OF CALGARY—
May 16	Dried Blood.	44171	P. Burns & Co., East Calgary.	3 lbs.	10	Vendors.		
" 16	Tankage.	44172	"	3 "	10	"		
" 16	Fertilizer C.	44173	"	3 "	10	"		
" 16	Fertilizer A.	44174	"	3 "	10	"		
" 16	Standard.	44175	"	3 "	10	"		
" 16	Fertilizer D.	44176	"	3 "	10	"		
" 16	Fertilizer B.	44177	"	3 "	10	"		
" 16	Bone Meal	44178	"	3 "	10	"		
" 16	Lawn.	44179	"	3 "	10	"		

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total including that of nitric acid or ammonia if present.	Nitrogen p.c. Total, calculated as Ammonia.	Phosphoric acid p.c. Soluble in water.	Phosphoric acid p.c. Reverted or Citrate Soluble.	Phosphoric acid p.c. Insoluble.	Phosphoric acid p.c. Total.	Phosphoric acid p.c. Total available.	Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
543	As guaranteed	4·91	6	4	3	1 75	8·75	7	5	48233	
	As found.	5·32	6·46	4·20	3 60	3·15	10 95	7·80	4 79	..	Meets guarantee.
544	As guaranteed	3·29	4	5·5	2·5	1·5	9 5	8	7	48234	
	As found.	3 36	4 09	6 55	3·35	4·50	11·40	9 90	8·65	..	"
542	As guaranteed	0 82	1	8·5	0·55	1	10	9	2	48235	
	As found.	0 93	1 13	7·80	2 15	1·65	11 60	9·95	3·05	.....	"
192	As guaranteed	.....	...	8	2	1	11	10	8	48241	
	As found.	.....	.....	8·55	3·70	0 85	13·10	12·25	7·65	..	"
145	As guaranteed	2·47	3	5	3	0·25	8·25	8	5	48242	
	As found.	2·53	3 08	5 95	3 20	4 30	13·45	9 15	5·02		"
153	As guaranteed	15·00	18	.....	.....			...	.....	48243	
	As found.	16·40	19 91	.....	.....	.....	...	...	.....	.....	"
213	As guaranteed	2 06	2 5	6	2	1	9	8	1 5	48241	
	As found.	2 04	2·47	8·00	1·65	1·45	11·10	9·65	1·58	...	"
541	As guaranteed	2·47	3	5·5	1·5	1 25	8·25	7	4	48250	
	As found.	2 91	3 57	6·10	3·45	2 45	12 00	9·55	4 50	.....	"
208	As guaranteed	1·65	2	6	2	1	9	8	5	48251	
	As found.	1·73	2 10	8 50	1·40	1 40	10 30	9·90	5·08	.....	"
209	As guaranteed	1 65	2	6	2	1	9	8	5	48252	
	As found.	1·58	1·92	8·35	1 90	1·75	12 00	10 25	4 95	.....	"
146	As guaranteed	2·47	3	.....	20	1	21	20	...	48270	"
	As found.	4·58	5 56	.....	16 55	4 10	20 65	16·55	.....	.....	"
157	As guaranteed	2 47	3·0	5 5	3 5	0·25	9.25	9 0	4 0	48271	"
	As found.	2·21	2·68	8 35	0·40	3·00	11·75	8·75	4·71		
213	As guaranteed	2 06	2 5	6·0	2 0	1·0	9 0	8 0	1 5	48272	
	As found.	2·12	2·58	7 50	2 40	2·45	11·35	8·90	1·93	.....	"
255	As guaranteed	15·0	18·3	.....	.....		.....	....	.....	48273	
	As found.	15 78	19 16	...	.....	.....	...	...	.....	.....	"
256	As guaranteed	.....	.....	.....	.....	...		14·0	..	48274	
	As found.	... ...	.....	15 80	2·05	0·80	18 65	17·85	..	.....	"
257	As guaranteed	.. ...	....	.....	.....	..	...	....	50 0	48275	
	As found.	. ...	.....	. ...	... ...	.....	... ...	... .	49 70	.....	"
R. W. FLETCHER, INSPECTOR.											
439	As guaranteed	10 74	13·04	.....		3·0	0 77	3 77	3 0	.....	44171 Meets guarantee.
	As found.	10·42	12·65	1·80	1·25	1 15	4 20	3·05	..	.....	
440	As guaranteed	7·59	9 49	Trace.	5 87	2·91	8·78	5·87	..	44172	
	As found.	7·00	8·50	0 40	7·45	3·75	11·70	7·95	..	.....	"
432	As guaranteed	5·61	6·81	0 86	3·07	6 67	10 60	3·93	5·71	44173	
	As found.	5·71	6·93	1·65	5·85	3 90	11·40	7.50	7 57	.....	"
430	As guaranteed	2 80	3·40	0·26	1·15	13 89	15 30	1·41	3·80	44174	
	As found.	4·72	5·73	0 55	7 10	9 25	17·90	7·65	4·82	..	"
313	As guaranteed	6·54	7 91	0·15	7·69	5 15	12·99	7·84	0·08	44175	
	As found.	7·38	8·96	0·70	7·85	4 65	13·20	8·55	0·25	.....	"
433	As guaranteed	6·53	7·93	0·17	8·25	4 30	12·72	8·41	4 66	44176	
	As found.	6·34	7·70	1·10	6·80	4 35	12 25	7 90	7·01	..	"
431	As guaranteed	6·10	7·40	0·11	9·28	2·81	12·20	9·39	4·77	44177	
	As found.	5·01	6·08	0·25	6·55	2 70	9 35	6·80	11·39	..	"
321	As guaranteed	3·51	4·26	0 15	15 7	7·89	23 74	15·85	Trace.	44178	
	As found.	4·47	5·43	0·95	13 15	11·45	25·55	14·10	0·20	...	
.....	As guaranteed	... ...	.....	.....	.....	.....	.....	...	.....	44179	
	As found.	5 72	6·95	2 00	7·55	11·55	21·10	9·55	...	.....	Not registered.

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF NELSON—								
1912.								
April 18	Fertilizer.....	49658	Vernon Fruit Co., Vernon, B.C.	3 lbs.	15	Swift Canadian Co., Edmonton	.....	.....
" 18	"	49659	" ..	3 " ..	15	" ..	.....	.....
" 18	"	49660	" ..	3 " ..	15	" ..	.....	.....
" 26	"	49661	D. E. Gellatly & Sons, Gellatly, B.C.	3 " ..	25	Victoria Chem. Co., Victoria, B.C.	.....	.....
" 26	"	49662	" ..	3 " ..	25	" ..	.....	.....
" 26	"	49663	" ..	3 " ..	25	" ..	.....	.....
" 26	"	49664	" ..	3 " ..	25	" ..	.....	.....
" 26	"	49665	" ..	3 " ..	25	" ..	.....	.....
May 2	"	49670	Brackman Ker M. Co., Nelson, B.C.	3 " ..	15	" ..	.....	.....
" 2	"	49671	" ..	3 " ..	15	Vendors.....	.....	.....
" 2	"	49672	P. Burns & Co., Calgary.	3 " ..	15	"	.....	.....
" 2	"	49673	" ..	3 " ..	15	"	.....	.....
" 2	"	49674	" ..	3 " ..	15	"	.....	.....
DISTRICT OF VANCOUVER—								
May 7	Fertilizer....	38346	Brackman Ker M. Co., New Westminster.	5 lbs.	15	Victoria Chem., Co., Victoria, B.C.	.....	.....
" 13	Bone Meal....	38347	A.R. MacDougall, Vancouver.	3 " .	15	Portland Seed Co., Portland, O.	.....	Not registered.
" 13	Sheep Manure	38348	Chas. Keeler, Vancouver.	3 " .	15	J. A. Simmers, Ltd., Toronto.	.....	"
" 14	Sulphate of Potash.	38349	Royal Nurseries, Vancouver.	3 " .	20	Victoria Chem. Co., Victoria, B.C.	.....	.....
" 14	Nitrate of Soda	38350	"	3 " .	20	" .	.....	.....
" 15	Blood.....	38351	Brown Bros. South Vancouver.	3 " .	20	P. Burns & Co., Vancouver.	.....	Not registered.

SESSIONAL PAPER No. 14

FERTILIZERS AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c.		Phosphoric Acid p.c.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Total including that of Nitric Acid or ammonia if present.	Total calculated as Ammonia	Soluble in Water.	Reverted or Citrate Soluble.	Insoluble.	Total.	Total Available.	Potash.		
THOS. PARKER, INSPECTOR.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
341	As guaranteed	4 12	5·0	6·87					12·00	19658	
	As found	4 50	5 31	0·58			10 90		11·58		Meets guarantee.
342	As guaranteed	4 52	5 5	7·32					9 0	19659	
	As found	5·18	6·29	0 68			14 85		12 24		
343	As guaranteed	4·93	6·0	4·78					6·0	19660	
	As found	5·07	6 15	1 15			11 25		8·14		
74	As guaranteed	3·5					10·00		11·0	19661	
	As found	4 33	5 26	11·05			11·05	11 05	10·56		
77	As guaranteed	15 5								19662	
	As found	16 15	19 60								
78	As guaranteed								50·0	19663	
	As found								49·48		
79	As guaranteed								50·0	19664	
	As found								19 80		
80	As guaranteed						16·00			19665	
	As found			18 70							
76	As guaranteed	2 5					10 00		11·0	19670	
	As found	2 50	3 04	8 20			12 65		12 09		
355	As guaranteed		3 5				26·00			19671	
	As found	2·70	3·28				26 2				
430	As guaranteed	2·80	3·40	0 26	1 15	13 89	15 30	1 41	3 80	19672	
	As found	3·48	4·21	0 90	10 25	9 15	20 25	11 15	6 52		
131	As guaranteed	6 10	7·40	0 11	9 28	2 81	12 20	9 39	4 77	19672	
	As found	6·42	7 80	0·25	9·20	2 80	12 25	9 45	3·24		
132	As guaranteed	5 61	6·81	0·86	3 07	6 67	10 60	3·93	5 71	19674	
	As found	7 39	8 87	0 80	3 95	5 85	10 60	4 75	6 78		
J. F. POWER, INSPECTOR.											
74	As guaranteed	3 5					9 0		11 0	38346	Meets guarantee.
	As found	3 77	4 60				10 85		12 62		
(538)	As guaranteed	4 19					22 64			38347	
	As found	3 70	4 50				23 35				
	As guaranteed									38348	Not registered.
	As found	1 76	2·13	1 90	0 30	1 25	3 45	2 20			
78	As guaranteed								50·0	38349	
	As found								50 00		Meets guarantee.
77	As guaranteed	15·5								38350	
	As found	15 96	19 38								
(139		10 74	13 04		3·0	0 77	3 77	3·0		38351	Manufacturers register No. 439 & 603 Blood fertilizers. Sample meets guarantee of either
or	As guaranteed	12 34	15·0								
603)	As found	13 12	15·93	1 40	0 40	0 35	2 15	1 80			

Date of Collection.	Designation.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report. (Is not an expression of Opinion.)
DISTRICT OF VANCOUVER—								
1912.								
May 15	Tankage	38352	Brown Bros. South Vancouver.	3 lbs.	20	P. Burns & Co., Vancouver.		Not registered.
" 16	Fertilizer	38353	W. J. Rennie & Co. Vancouver.	3 pkgs	60	W. J. Rennie & Co., Toronto.		
" 16	Tankage	38354	P. Burns & Co., Vancouver.	5 lbs.	60	Vendors		Not registered.
" 16	Blood	38355	"	5 "	60	"		"
DISTRICT OF VICTORIA—								
April 24	Fertilizer A	49157	The Brackman Ker M. Co., Victoria B.C.	5 lbs.	15	The Victoria Chem. Co. Ltd. Victoria, B.C.		
" 29	Fertilizer B	49158	"	5 "	15	"		
" 29	Fertilizer C	49159	"	5 "	10	"		
" 29	Fertilizer D	49160	"	5 "	15	"		
" 29	Blood Meal	49161	"	5 "	20	P. Burns & Co., Vancouver, B.C.		Evidently not reg. No marks visible on Sack.
" 29	Bone Meal	49162	The Brackman Ker M. Co., Victoria B.C.	5 "	10	Pacific Whaling Co., Ltd., Victoria, B.C.		
" 29	Nitrate of Soda	49164	Victoria Chem. Co Ltd., Victoria, B.C.	5 "	20		Parrott & Co. San Francisco.	
" 30	Superphosphate of Lime	49165	"	5 "	20	Mountain Copper Co., San Francisco, Cal.		
" 30	Sulphate of Potash	49166	"	5 "	20		Myer Wilson & Co., San Francisco. Cal.	
" 30	Nitrate of Potash	49167	"	5 "	20		"	

SESSIONAL PAPER No. 14

FERTILIZER AS SOLD.

Registration Number.	Analysis of Sample.	Results of Analysis. Nitrogen p.c. Total including that of Nitric Acid or ammonia if present.	Nitrogen p.c. Total calculated as Ammonia.	Phosphoric Acid p.c. Soluble in Water.	Phosphoric Acid p.c. Reverted or Citrate Soluble.	Phosphoric Acid p.c. Insoluble.	Phosphoric Acid p.c. Total.	Phosphoric Acid p.c. Total Available.	Potash.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.											
		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
(602)	As guaranteed	6·37	7·75	Trace.	5·87	2·91	8·78	5·87	....	38352	
	As found....	6·71	8·14	3·10	5·55	3·50	12·15	8·65	....	....	Meets guarantee.
276	As guaranteed	....	2·5	8·0	....	....	....	....	2·0	38353	
	As found....	1·97	2·40	12·10	....	....	15·70	....	3·88	....	"
(602)	As guaranteed	6·37	7·75	Trace.	5·87	2·91	8·78	5·87	....	38354	
	As found....	6·20	7·53	....	....	....	14·20	....	....	....	"
(439	....	10·74	13·04	....	3·0	0·77	3·77	3·0	....		
or	As guaranteed	12·34	15·0	....	....	....	....	....	....	38355	
603)	As found	13·35	16·22	1·00	0·10	0·65	1·75	1·10	....		See note under 38351. Meets guarantee.

D. O'SULLIVAN, INSPECTER.

73	As guaranteed	1·0	....	....	....	....	10·0	....	7·0	49157	
	As found....	4·21	5·12	....	....	....	13·70	....	9·93	....	Meets guarantee.
74	As guaranteed	3·5	....	....	....	....	10·0	....	11·0	49158	
	As found....	3·97	4·82	....	....	....	10·60	....	13·52	....	"
75	As guaranteed	....	....	....	....	....	12·5	....	11·0	49159	
	As found....	....	....	....	....	....	16·15	....	13·83	....	"
76	As guaranteed	2·5	....	....	....	....	10·0	....	11·0	49160	
	As found....	2·40	2·92	....	....	....	14·05	....	13·05	....	"
(439	....	10·74	13·04	....	3·0	0·77	3·77	3·0	....		
or	As guaranteed	12·34	15·0	....	....	....	....	....	....	49161	See note under 38351. Meets guarantee.
603)	As found	12·50	15·18	0·55	0·30	1·35	2·20	0·85	....		
355	As guaranteed	....	3·5	....	....	....	26·0	....	....	49162	
	As found....	2·83	3·5	....	....	....	26·95	....	....	....	Meets guarantee.
77	As guaranteed	15·5	....	....	....	....	....	....	....	49164	
	As found....	16·05	19·49	....	....	....	....	....	....	....	"
80	As guaranteed	....	....	....	....	....	16·0	....	....	49165	
	As found....	....	....	....	....	....	20·65	....	....	....	"
78	As guaranteed	....	....	....	....	....	....	....	50·0	49166	
	As found	....	....	....	....	....	....	....	49·25	....	"
79	As guaranteed	....	....	....	....	....	....	....	50·0	49167	
	As found	....	....	....	....	....	....	....	49·55	....	"

APPENDIX G.

BULLETIN No. 243—COCOAS AND CHOCOLATES.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue,

OTTAWA, October 16, 1912.

SIR,—I beg to hand you a report upon 252 samples purchased as cocoas and chocolates in February and March of this year.

Cocoa has not been systematically inspected since September, 1900 (see Bulletin No. 72). At that time it was found that cocoa and chocolate were, as a rule, quite free from anything that could be regarded as adulteration.

The various processes of manufacture including removal of more or less fat, addition of starch, fineness of grinding, &c., have for their object the preparation of the article in digestible form, and there can be no doubt that the different brands found on the market approve themselves to the different tastes and needs of users of cocoa.

The terms cocoa and chocolate appear to be employed according to no very definite rule. It would be well to restrict the term chocolate to the sugared article, and especially to a preparation containing vanilla or other flavouring substance.

Where our inspectors have sent in considerable numbers of samples from the same manufacturers, it will be noted that such samples, when representing the same brand, give analytical results of very constant character. This indicates great care in manufacture; and it may be safely inferred from the appended tables, that cocoa and chocolate, as found on our markets, are of good quality. In one or two instances (see No. 49350 & 49351) the ash and the fat content are exceptional. Such samples are usually sold in bulk, and do not bear the manufacturer's name. They contain excess of cocoa husk.

We have not established any legal standards for these articles, and the present report may serve the purpose of a guide for future action in this direction. The federal standards of the United States of America require chocolate to contain not more than three (3%) per cent of insoluble ash, or three and a half (3·5 %) per cent of fibre or less than forty-five (45%) per cent of cocoa fat. They further limit the amount of starch permissable to nine (9%) per cent. Cocoa is defined as

a product from which more or less of the fat has been removed, with corresponding changes in the amount of remaining constituents.

I consider it unnecessary as yet to advise standardization of cocoa and chocolate; and would respectfully suggest that the present report be published as Bulletin No. 243.

I have the honour to be, sir,

Your obedient servant,

A. McGILL,

Chief Analyst.

NOTES.

Motts.

Number of Sample.	Ash.		Alkalinity of Ash.	Moisture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47019	5·08	2·22	6·50	5·75	25·75	.....	Cocoa.
49347	5·70	2·55	7·05	6·15	18·80	.....	"
47022	3 27	.....	.....	.....	.....	.....	Chocolate.
47024	2·95	1·25	3·69	2 00	46·85	.....	"
46162	2 77	.....	.....	.....	.....	.....	"
45606	2·88	1·00	3·32	1·98	40·25	.....	"
49527	2·99	1·63	4·14	2·39	40·30	.....	"
40830	3·01	1·32	3 80	4·21	34·60	.....	"
49352	1·07	0·52	.....	0 97	22·10	63·32	Double diamond.

"Cadbury."

50127	1·48	0·94	.....	1·23	7·30	72·71	Chocolate.
50130	1·48	0·93	.....	1 25	7·25	71·46	"
44127	1·65	1·04	.....	1·94	7·35	69·50	"
48607	8·20	6·72	10·05	3·90	27·20	.....	Cocoa.

Epps.

*46169	1·53	0·66	2·00	4·27	23·15	30 78	Cocoa.
39037	1·46	.....	.....	.....	.....	.....	"
*40822	1·56	0·64	2·05	3·71	22 70	31·56	"
*50125	1·58	0·70	2·05	3·78	23·20	29·68	Presence of starch (arrowroot) stated on the label.

Ghirardelli.

38280	2 77	1·96	.....	1 92	14·20	58·50	Chocolate powder.
47700	3·02	2·05	.....	2·39	15·40	55·18	" "
48489	2 98	2·06	.....	1·80	15·00	54·42	" "
47698	1·49	0·55	.....	1·55	24·35	58·37	" cake.

H. de Jong.

49523	7·60	5·04	9·80	4·30	28·65	.....	Cocoa.
49612	7·51	6·07	10·40	4·40	27·45	.....	"
49695	7·76	5·47	10·20	6·45	26·95	.....	"

* Contains starch.

COCHRANE.

Number of Sample.	Ash. Total.	Ash. Soluble.	Alkalinity of Ash.	Moisture.	Fat.	Sugar	Remarks.
*50124	3·71	1·64	4·70	3·65	10·10	10·70	Cocoa
50129	6·55	2·26	7·17	5·17	17·05	. .	Chocolate.

MENIER.

46165	1·32	0·51	. . . . .	1·21	22·45	60·00	Chocolate.
40829	1·31	0·50	. .	1·06	23·05	61·05	"

ROWNTREE.

45602	5·52	2·04	6·35	4·23	20·35	. .	Cocoa.
47691	7·71	6·10	10·40	4·80	28·00	. . . . .	"

TETLEY.

44124	8·69	7·14	11·30	5·67	23·65	21·25	Cocoa.
38279	8·45	6·89	11·00	7·08	24·20	. .	"

TODHUNTER.

45608	3·00	0·91	3·36	3·62	42·05	. . .	Chocolate.
19354	1·32	0·49	.	1·22	22·15	55·93	" diamond.
47869	6·12	1·62	6·25	3·05	23·70	. . .	Cocoa

VAN HOUTEN.

44125	8·25	6·75	11·15	3·34	27·55	. .	Cocoa.
49613	8·05	6·58	10·50	4·47	28·95	. . . . .	"
38277	7·95	6·47	10·40	4·34	28·95	. . . . .	"

. 38282	2·84	2·00	. . . .	2·15	14·75	56·08	Chocolate, Charlesworth.
*47697	0·74	0·32	. . . . .	1·50	24·70	52·54	" Dom. Cho. Works.
38278	6·80	4·85	9·10	4·82	27·70	. . . . .	Cocoa, Dreissen.
47016	7·01	5·50	9·15	5·42	24·45	. . . . .	" Melior.
47692	6·08	4·45	8·10	5·71	29·70	. . . . .	" Ridgway.
47020	8·08	6·58	10·00	4·82	26·80	. . . . .	" Schwartz.
48606	6·67	4·93	8·70	3·95	30·55	. . . .	" Suchard.

* Contains starch (maize in 47697, arrowroot in 50124).

BAKERS CHOCOLATE AND COCOA.

Number of Sample.	Ash.		Alkalinity of Ash.	Moisture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47021	3·10	.....	.....	.....	.....	.....	Chocolate No. 1.
46161	3·11	1·27	3·8	0·76	54·1	.....	"
45607	3·05	.....	.....	.....	.....	.....	"
37367	3·01	.....	.....	.....	.....	.....	"
40826	3·17	1·27	3·8	0·76	54·1	.....	"
49526	2·90	.....	.....	.....	.....	.....	"
49528	3·10	1·15	3·6	1·02	54·4	.....	"
49529	3·12	.....	.....	.....	.....	.....	"
48611	3·26	.....	.....	.....	.....	.....	"
48612	2·93	1·11	3·5	1·95	54·4	.....	"
48614	3·18	.....	.....	.....	.....	.....	"
49608	3·26	.....	.....	.....	.....	.....	"
47696	3·32	.....	.....	.....	.....	.....	"
47023	1·55	0·52	.....	0·90	39·5	41·2	Sweetened chocolate.
46167	5·16	.....	.....	.....	.....	.....	Cocoa.
45601	5·80	.....	.....	.....	.....	.....	"
45605	5·65	2·07	6·8	4·02	24·5	.....	"
40823	5·47	.....	.....	.....	.....	.....	"
50122	5·21	1·85	6·4	4·26	27·0	.....	"
49521	5·10	.....	.....	.....	.....	.....	"
49522	5·19	.....	.....	.....	.....	.....	"
48083	5·22	.....	.....	.....	.....	.....	"
48610	5·74	1·89	6·9	3·50	24·8	.....	"
44121	5·35	2·00	6·4	4·58	28·0	.....	"
44123	5·06	.....	.....	.....	.....	.....	"
39034	5·65	.....	.....	.....	.....	.....	"
47888	5·18	1·78	6·3	4·41	27·9	.....	Sold as Webb's.
39033	5·75	2·34	6·8	6·05	25·2	.....	Sold in bulk.
39038	5·53	2·29	6·7	6·05	25·5	.....	"

FRY.

47017	1·67	.....	.....	.....	.....	.....	Cocoa.
*37358	1·67	0·59	2·05	3·46	14·90	36·83	Homeopathic cocoa.
37360	1·66	.....	.....	.....	.....	.....	" "
*39035	1·82	0·63	2·15	2·90	15·10	39·70	" "
*48492	1·58	0·50	1·95	3·33	14·25	38·33	" "
38277	1·67	.....	.....	.....	.....	.....	
47693	1·77	.....	.....	.....	.....	.....	
46170	5·28	.....	.....	.....	.....	.....	Breakfast cocoa.
37361	5·37	3·95	8·25	5·27	30·85	.....	"
39036	5·46	4·11	8·30	5·09	31·10	.....	"
50121	5·41	.....	.....	.....	.....	.....	"
48208	5·41	4·02	8·10	4·76	30·40	.....	"
48220	5·45	.....	.....	.....	.....	.....	"
48096	5·45	.....	.....	.....	.....	.....	"
48609	5·52	4·13	8·15	4·45	31·25	.....	"
46164	0·96	0·38	.....	1·37	22·60	59·25	Chocolate.
37364	3·01	0·97	.....	2·43	17·90	41·31	"
37365	1·27	.....	.....	.....	.....	.....	"
39040	1·26	.....	.....	.....	.....	.....	"
50128	1·25	.....	.....	.....	.....	.....	"
48213	1·22	0·42	.....	1·10	23·05	59·25	" powder.
48225	1·18	.....	.....	.....	.....	.....	" "
48086	1·24	0·41	.....	1·05	23·80	57·14	" "
48095	1·28	.....	.....	.....	.....	.....	" "
48613	0·92	0·33	.....	1·11	22·50	60·90	" diamond.
45603	5·48	.....	.....	.....	.....	.....	Cocoa.?
40821	5·46	.....	.....	.....	.....	.....	" ?

*Contains starch (arrowroot) stated as "Other ingredients" on the lable.

LOWNEY'S.

Number of Sample.	Ash.		Alkalinity of Ash.	Moisture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47025	2·98	0·98	3·69	2·06	53·2		Chocolate.
37366	3·35	1·40	3·85	0·90	53·0		"
40827	3·68	1·34	4·04	0·41	51·35		"
48615	3·24						
49607	3·31						
46168	5·23	2·11	6·45	5·68	22·75		Breakfast cocoa.
45604	5·43	2·07	6·55	4·19	22·95		" "
37359	5·82						
37362	5·50	2·26	6·65	3·79	23·05		Cocoa.
40825	5·63						"
48608	5·14						"
49614	5·59	2·29	6·80	4·17	20·60		"
45609	1·14	0·43		1·12	25·60	58·9	Diamond chocolate.
37363	1·25	0·41		1·10	23·80	50·38	" "
39041	2·87	0·88		1·10	16·20	49·60	Chocolate.
39042	2·65	0·81		2·31	16·00	19·75	"
39043	2·92				17·15	45·38	"
50126	3·06	1·04		2·11	15·85	43·42	"
44126	3·04	1·02		1·76	16·30	43·87	(premium).
44128	2·59	0·88		1·78	16·20	47·95	" "
44129	2·61	0·88		1·71	15·35	48·10	" "
44130	3·20	1·07		1·87	16·75	42·37	
48490	2·40	0·90		1·91	18·20	46·30	"
38281	2·66	0·95		2·55	15·20	17·80	"

MANUFACTURER UNKNOWN

49340	5·09	3·07	6·60	3·95	21·05		Cocoa.
*49350	4·79	1·74	5·20	2·95	6·00		"
†49351	13·89	2·91	11·40	4·00	3·70		"
49356	5·19	1·58	5·95	1·55	25·50		Chocolate.

COWANS.

47018	5·24						Cocoa.
46166	5·05						"
40824	5·30						"
50123	5·47	1·82	6·40	4·49	22·95	23·70	"
49524	5·34	1·86	6·20	4·40	23·25		"
49534	5·30						"
49348	5·50						"
47882	5·59						"
47891	5·39						"
47867	5·26	1·69	6·20	4·17	25·25		"
48080	5·19						"
44122	5·25						"
38276	5·64	1·84	6·30	4·13	23·90		"
47691	5·05						"
46163	4·00						Chocolate.
45610	3·38	1·35	3·81	1·23	52·60		"
40828	4·15	1·45	4·91	2·27	35·25		"
49530	4·24						"
49355	4·19	1·42	4·90	1·26	34·75		"
49609	3·09	1·17	3·61	1·51	54·05		"
47699	3·86	1·48	4·98	4·60	34·10		"
*48491	2·34	0·95	3·40	2·89	11·20	15·56	"

* Contains starch † Excess husk.

BULLETIN No. 243—COCOAS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1912.							
Feb. 19	Cocoa	47016	Wentzells, Ltd., Halifax, N.S.	3 tins.	45	Meliet, Holland	Mfrs.
" 20	"	47017	City Provision Store, Halifax, N.S.	3 "	30	J. S. Fry, London, Eng.	"
" 20	"	47018	W. J. Forristall & Co., Halifax, N.S.	3 "	30	Cowan Co., Toronto.	Unknown
" 20	"	47019	John P. Mott & Co., Halifax, N.S.	3 "	Nil	Vendors	
Mar. 6	"	47020	W. H. Schwartz & Sons, Halifax, N.S.	3 "	25	"	
Feb. 19	Chocolate	47021	Wentzells, Ltd., Halifax, N.S.	½ lb	25	W. Baker, Dorchester, Mass.	Mfrs.
" 20	"	47022	T. H. Brown, Halifax, N.S.	½ "	20	J. P. Mott & Co., Halifax, N.S.	J. P. Crowe & Co., Halifax.
" 20	"	47023	W. J. Hopgood & Sons, Halifax, N.S.	½ "	18	W. Baker, Dorchester, Mass.	Mfrs.
" 21	"	47024	John P. Mott & Co., Halifax, N.S.	½ "	Nil	Vendors	
" 21	"	47025	J. F. Crowe & Co., Ltd., Halifax, N.S.	½ "	17	W. M. Lowney Co., Montreal.	Mfrs.
DISTRICT OF PRINCE EDWARD ISLAND—							
Feb. 8	Chocolate	46161	Beer & Goff, Charlottetown, P.E.I.	3 pks.	75	Walter Baker & Co., Ltd., Dorchester, Mass.	
" 8	"	46162	" "	3 "	60	Jno. P. Mott & Co., Halifax, N.S.	
" 9	"	46163	John McKenna, Charlottetown, P.E.I.	3 "	30	Cowan & Co., Ltd., Toronto.	
" 15	"	46164	Brace & McKay Co., Ltd., Summerside, P.E.I.	3 "	24	J. S. Fry & Sons, Bristol & London, Eng.	
" 19	"	46165	Sanderson & Co., Charlottetown, P.E.I.	3 "	36	M. Menier	
" 7	Cocoa	46166	Stewart & Son, Charlottetown, P.E.I.	3 "	30	The Cowan Co., Ltd., Toronto.	
" 7	"	46167	" "	3 "	45	The Walter Baker Co., Ltd., Montreal	
" 8	"	46168	Beer & Goff, Charlottetown, P.E.I.	3 "	45	The Walter M. Lowney Co., Montreal.	
" 9	"	46169	John McKenna, Charlottetown. P.E.I.	3 "	30	Jas. Epps & Co., Ltd., London, Eng.	
" 15	"	46170	Brace-McKay Co., Ltd., Summerside, P.E.I.	3 "	45	J.S. Fry & Sons, Ltd., Bristol, Eng.	

AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis											No. of Sample.
	On Air-Dry Original Material.											
	Ash.			Fat.								
	Total.	Soluble in Water.	Alkalinity of Ash c.c. $\frac{N}{10}$ Acid per gram Chocolate and Cocoa.	Moisture.	By Ordinary Soxhlet.	By Continuous Extraction. 16 hrs.	Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.		
R. J. WAUGH, INSPECTOR.												
	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
	7·01	5·50	9·15	5·42	24·45			10·00	.	78		47016
	1·67											47017
	5·24											47018
	5·08	2·22	6·50	5·75	27·75			7·42		44		47019
	8·08	6·58	10·00	1·82	26·80			11·82		81		47020
	3·10											47021
	3·27	....										47022
Sold as sweetened chocolate	1·55	0·52		0·90	39·50		41·15	.	8·40	53		47023
	2·95	1·25	3·69	2·00	46·85			5·76		42		47024
	2·98	0·98	3·69	2·06	53·20			6·65		33		47025
WM. A. WEEKS, INSPECTOR.												
Guaranteed by mfrs.	3·11	1·27	3·78	0·76	54·05			7·01	.	40		46161
Pure and soluble ...	2·77											46162
....	4·00	..										46163
....	0·96	0·38		1·37	22·60	..	59·25	.	5·72	39		46164
Made in England. Chocolate menier.	1·32	0·51		1·24	22·45		60·00	..	8·09	39		46165
Absolutely pure	5·05	.....	.....					...				46166
Warranted pure by mfrs	5·16	...	.....				.....	...				46167
Breakfast cocoa.	5·23	2·11	6·45	5·68	22·75	.....	..	7·31	.	40		46168
Contains cocoa, loaf sugar and West India arrow-root.	1·53	0·66	2·00	4·27	23·15	.....	30·78	.....	3·66	43		46169
....	5·28	.....	.....	....		....	.....	.....	...			46170

BULLETIN No. 243—COCOAS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1912.							
Feb. 6	Cocoa	45601	Dearborn & Co., St. John, N.B.	3 tins.	33	Walter Baker & Co., Ltd., Montreal.	
" 14	"	45602	Wm. Hawker & Son, St. John, N.B.	½ lb.	45	Rowntree, York, Eng.	
Mar. 5	"	45603	Yerxa Grocery Store, Fredericton, N.B.	3 cans	30	J. S. Fry & Sons, Ltd., Bristol, Eng.	
" 13	"	45604	Reed & Co., Ltd., Moncton, N.B.	3 "	30	The Walter M. Lowney Co., Ltd., Montreal.	
" 14	"	4560	J. D. Paulin, Newcastle, N.B.	3 "	45	Walter Baker & Co., Montreal.	
Feb. 7	Chocolate	45606	Walter Gilbert, St. John, N.B.	½ lb.	20	Jno. P. Mott & Co., Halifax, N.S	
" 7	"	45607	McPherson Bros., St. John, N.B.	½ "	20	Walter Baker & Co., Ltd., Dorchester, Mass.	
Mar. 6	"	45608	Borden & King, Woodstock, N.B.	3 pks.	30	Todhunter, Mitchell & Co., Toronto.	
" 13	"	45609	Reed & Co., Ltd., Moncton, N.B.	3 bars	21	The W. M. Lowney Co., Montreal.	
" 14	"	45610	George Stables, Newcastle, N.B.	½ lb.	25	The Cowan Co., Ltd., Toronto.	
DISTRICT OF QUEBEC—							
Feb. 6	Cocoa	37358	Arthur Rinfret, 414 Rue St. Joseph, Quebec.	½ lb.	30	J. S. Fry & Son, Bristol.	J. B. Bedard, Quebec.
" 7	"	37359	Arthur Drolet, 714 Rue Valier, Quebec.	½ "	30	Lowney's Co., Montreal.	Mfrs.
" 7	"	37360	" "	½ "	30	Fry & Sons, Bristol.	Langlois & Paradis.
" 8	"	37361	O. Lacroix, 19 Rue St. Joseph, Quebec.	½ "	36	" "	Mfrs.
" 8	"	37362	" "	½ "	30	Lowney's, Montreal.	
" 7	Chocolate	37363	Arthur Drolet, 714 Rue Valier, Quebec.	½ "	39	" "	Mfrs.
" 7	"	37364	" "	½ "	30	J. S. Fry & Sons, Bristol.	J. B. Reneaud & Cie.
" 8	"	37365	O. Lacroix, 19 Rue St. Joseph, Quebec.	½ "	45	" "	Mfrs.
" 8	"	37366	" "	½ "	30	Lowney's, Montreal.	"
" 8	"	37367	" "	½ "	25	Baker, Dorchester, Eng.	"

SESSIONAL PAPER No. 14

AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.												
	On Air-Dry Original Material.												
	Ash.					Fat.							
	Total.	Soluble in Water.	Alkalinity of Ash expd. in c.c. Acid per 1 gram Chocolate and Cocoa.	Moisture.	By Ether Extr.	By Chloroform from Extract from 16 hrs.	Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	No. of Sample.		
J. C. FERGUSON, INSPECTOR.													
	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
La Belle Cohcolatiere	5 84		...								45601		
Rowntrees Cocoa T. 311	5 52	2 04	6 35	4 23	20 36	...		7 32		37	45602		
	5 48										45603		
	5 42	2 07	6 55	4 19	22 36	23 44		7 42		38	45604		
	5 65	2 07	6 80	4 02	24 45	....		7 30		37	45605		
Bar chocolate	2 88	1 00	3 32	1 95	40 25			7 10		35	45606		
	3 06	.....									45607		
T. M. Brand.	3 00	0 91	3 36	3 02	42 05			7 32		30	45608		
Diamond Brand.	1 14	0 43		1 12	25 60	...	58 40		7 06	38	45609		
Cowan's Supreme Chocolate	3 38	1 37	3 81	1 23	32 60	...		7 32		40	45610		
F. X. W. E. BELAND, INSPECTOR.													
	1 69	0 59	2 00	3 46	14 90		36 85		3 77	35	37358		
	5 82										37359		
	1 66										37360		
	5 37	3 95	8 25	5 27	30 85			8 41		73	37361		
	5 50	2 26	6 60	3 79	23 05			7 32		41	37362		
	1 25	0 44		1 10	23 80		56 38	...	6 68	35	37363		
	3 01	0 97		2 43	17 30		42 31		7 85	32	37364		
	1 27										37365		
	3 35	1 40	3 85	0 90	53 00			7 27		42	37366		
	3 01										37367		

BULLETIN No. 243—COCOAS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF ST. HYACINTHE—							
1912.							
Mar. 25	Cocoa	39033	H. Belisle, St. Hyacinthe	1 box.	25	W. Baker & Co., Ltd.	.....
Feb. 19	"	39034	N. Larivie, Farnham.....	3 " .	39	Bakers.....	Hudson & Orsali Montreal.
" 20	"	39035	L. Bissonnet, St. Jean....	3 " .	30	J. S. Fry & Sons, Ltd.	.....
" 20	"	39036	D. Cussan, St. Jean	½ lb..	25	"	.....
Mar. 6	"	39037	Davignon & Pratte, Knowlton.	3boxes	25	J. Epps & Co., Ltd.	.....
" 7	"	39038	The Hub, Cowansville, P.Q.	½ lb...	25	W. Baker & Co., Ltd	.....
Feb. 19	Chocolate...	39040	E Bienvenn, Farnham...	3boxes	36	J. S. Fry & Sons, Ltd.	.....
" 22	" ..	39041	Lemay & Fiset, Sherbrooke	3 " .	30	Lowney, Montreal..	.....
Mar. 6	" ..	39042	N. O. Rockwell, Waterloo	½ lb..	25	"	.....
" 19	" ..	39043	P. Thibault, Vietoriaville	3boxes	30	"	.....
DISTRICT OF MONTREAL—							
Feb. 14	Cocoa	40821	M. Schwartz, 100 St. Catherine St., Montreal.	3 tins.	25	J. S. Fry & Son.....	.....
" 14	"	40822	E. Martin, 203 Laurier Ave., W., Montreal.	3 " .	25	Jas. Epps & Co., Ltd.	.....
" 14	"	40823	" " .	3 " .	35	W. Baker & Co., Ltd. Montreal.	.....
" 15	"	40824	Wilfrid Brouillet, 77 University St., Montreal.	3 " .	30	The Cowan Co., Ltd. Toronto.	.....
" 15	"	40825	S. Dever & Son, 107 Colonial Ave., Montreal.	3 " .	45	Walter M. Lowney..	.....
" 15	Chocolate...	40826	Wilfrid Brouillet, 77 University St., Montreal.	3cakes	10	W. Baker Co., Ltd..	.....
" 15	" ..	40827	S. Dever & Son, 107 Colonial Ave., Montreal.	3 " .	40	W. M. Lowney Co..	.....
" 15	" ..	40828	" " .	3 " .	30	The Cowan Co., Ltd.	.....
" 15	" ..	40829	L. Beaudoin, 21 Vitre St., Montreal.	3 " .	45	Meniers.....	.....
" 16	" ..	40830	L. S. Guay, 124 Sherbrooke St., W., Montreal.	3 " .	30	Jno. P. Mott & Co..	.....

AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. On Air-Dry Original Material. Ash. Total.	Ash. Soluble in Water.	Alkalinity of Ash c.c.s. N/10 Acid per 1 gram Chocolate and Cocoa.	Moisture.	Fat. By Centrifuge.	Fat. By Continuous Extraction 16 hrs.	Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	No. of Sample.
J. C. ROULEAU, INSPECTOR.											
	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
	5·75	2·31	6·77	6·05	25·15				8·35	11	39033
	5·65										39034
	1·82	0·63	2·15	2·90	15·10		39·70		1·30	35	39035
	5·46	1·11	8·30	5·09	31·10			8·56		75	39036
	1·56										39037
	5·53	2·29	6·70	6·05	25·50				8·08	11	39038
	1·26										39040
	2·87	0·88		1·10	16·20		46·60		7·95	31	39041
	2·65	0·81		2·31	16·00		49·75		8·30	31	39042
	2·92				17·15		45·38				39043
J. J. COSTIGAN, INSPECTOR											
	5·46										40821
	1·56	0·61	2·05	3·71	22·70		31·56		3·71	41	40822
	5·47										40823
	5·30										40824
	5·63										40825
	3·17	1·27	3·78	0·76	54·05			7·01		40	40826
	3·68	1·34	4·04	0·41	51·35			7·62		36	40827
	4·15	1·45	4·91	2·27	35·25			6·64		35	40828
"Chocolat Menier"	1·31	0·50		1·06	23·05		61·05		8·83	38	40829
"Motts Elite"	3·01	1·32	3·80	4·21	34·60			4·92		44	40830

BULLETIN No. 243—COCOAS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1912.							
Feb. 3	Cocoa.....	50121	Seely & Stewart, Bank st., Ottawa.	3 tins.	30	J. S. Fry & Son, Ltd., England.	Mfrs.....
" 5	"	50122	Williams & Vanluven, Smith's Falls.	3 " .	39	W. Baker & Co., Ltd., Dorchester, Mass.	Robertson, Nicolle, & Co., Smith's Falls.
" 19	"	50123	Jos. P. Valiquette, Dalhousie st., Ottawa.	3 " .	30	The Cowan Co., Ltd., Toronto.	S. Major, Ltd., Ottawa.
" 19	"	50124	L. Malette, Dalhousie st., Ottawa.	¾ lb ..	20	C. H. Cochrane & Co., Ottawa.	Mfrs.....
" 19	" ...	50125	J. Mundy, St. Patrick st., Ottawa.	3 tins.	30	Jas. Epps & Co. Ltd,, London, Eng.	,Unknown .....
" 3	Chocolate...	50126	Murphy - Gamble, Ltd.- Ottawa.	3 " .	45	Lowney's, Montreal.	Mfrs.....
" 3	" ...	50127	Bate & Co., Sparks st., Ottawa.	3 " .	75	Cadbury, England..	Crosse & Blackwell, London, Eng.
" 3	" ...	50128	A. L. Pinard & Sons, Rideau st., Ottawa.	3 " .	47	J.S. Fry & Sons, Ltd., Bristol, Eng.	Mfrs.....
" 19	" ...	50129	L. Malette, Dalhousie st., Ottawa.	¾ lb ..	30	C. H. Cochrane & Co., Ottawa.	" .....
" 20	" ...	50130	Bryson - Graham, Ltd., Ottawa.	3 tins.	75	Cadbury, England ..	" .....
DISTRICT OF KINGSTON—							
Feb. 5	Cocoa.....	49521	W. J. Nesbit, Kingston..	3 pks.	45	Baker, Ltd., Dorchester, Mass.	.....
" 6	"	49522	A. Glover, Kingston.....	3 " .	45	" " ..	.....
" 6	"	49523	J. Gilbert, Kingston.....	3 " .	40	H. De Jong, Wormerveer, Holland.	.....
" 7	"	49524	Thompson Bros., Belleville	3 " .	30	Cowan's, Toronto....	.....
" 5	Chocolate...	49526	Wm. J. Arnil, Alfred st., Kingston.	3 " .	38	Baker, Ltd., Dorchester, Mass.	.....
" 5	" ...	49527	W. H. Medley, Johnston st. Kingston.	3 " .	30	J. P. Mott, Halifax.	.....
" 7	" ...	49528	J. B. Harker, Belleville..	3 " .	75	Baker, Ltd., Dorchester, Mass.	.....
" 8	" ...	49529	J. E. Lillico, Peterboro...	3 " .	75	" " ..	.....
" 8	" ...	49530	A. Pearson, Peterboro....	3 " .	30	Cowan's, Toronto...	.....
" 7	Cocoa ...	49534	S. Fort, Port Hope.....	3 " .	30	" " ..	.....

AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.											No. of Sample.
	On Air-Dry Original Material.											
	Ash.					Fat.						
	Total.	Soluble in Water.	Alkalinity of Ash cc.s. N Acid per 1 gram Chocolate and Cocoa.	Moisture.	By Centrifuge.	By Continuous Extraction 16 hrs.	Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.		
J. A. RICKEY, INSPECTOR.												
	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
Fry's	5·41											50121
Baker's	5·21	1·85	6·40	4·26	27·00			7·58		36		50122
Cowan's	5·47	1·82	6·40	4·49	22·95	23·70		7·54		33		50123
Cochrane's	3·71	1·64	4·70	3·65	10·10	10·70		4·30		44		50124
Epps	1·58	0·70	2·05	3·78	23·20		29·68		3·64	44		50125
	3·06	1·04		2·11	15·85		43·42		7·92	34		50126
	1·48	0·94		1·23	7·30		72·71		7·68	63		50127
	1·25											50128
	6·55	2·26	7·17	5·17	17·05			8·42		35		50129
	1·48	0·93		1·25	7·25		71·46		7·39	63		50130
JAS. HOGAN, INSPECTOR.												
	5·10											49521
	5·19											49522
	7·60	5·04	9·80	4·30	28·65			11·34		66		49523
	5·34	1·86	6·20	4·40	23·25			7·38		35		49524
	2·90											49526
	2·99	1·63	4·14	2·39	40·30			5·22		54		49527
	3·10	1·15	3·55	1·02	54·40			6·95		37		49528
	3·12											49529
	4·24											49530
	5·30											49534

BULLETIN No. 243—COCOAS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1912.							
Feb. 8	Cocoa	49347	A. C. Tresham, 266 King St. West, Hamilton.	3 pks	30	Motts	Unknown
" 14	"	49348	The Cowan Co., Ltd., Sterling Road, Toronto.	3 "	23	Vendors	
" 15	"	49349	T. J. Medland, Ltd., 118 King St. East, Toronto.	½ lb	13		
" 16	"	49350	J. G. Pond, Queen St. West, Toronto.	½ "	13		J. M. Lowes Co., Ltd., Toronto.
" 21	"	49351	Prentice & Sproule, Collingwood.	½ "	13		Lang & Bro., Collingwood.
" 7	Chocolate	49352	The Arthur Bell Co., 447 Barton St. East, Hamilton.	3cakes	15	Jno. P. Mott & Co., Halifax.	
" 13	"	49354	D. Cameron, 164 Main St. East, Toronto.	3 pks.	15	Todhunter, Mitchell & Co., Toronto.	
" 14	"	49355	The Cowan Co., Ltd., Sterling Road, Toronto.	3 "	22	Vendors	
" 15	"	49356	J. M. Evans & Co., 1743 Dundas St., Toronto.	½ lb	20		Robertson Bros., Toronto.
DISTRICT OF LONDON—							
Feb. 19	Cocoa	47882	Jones & May, Exeter	3 pks.	30	Cowan & Co., Ltd., Toronto.	
" 19	Chocolate	47887	J. A. Stewart, Exeter	3 "	30	Pure Gold Mfg. Co., Toronto.	Pure Gold Chocolate.
" 19	Cocoa	47888	" "	3 "	38	W. Baker Co., Ltd., Dorchester, Mass.	Labelled Webbs Pure Cocoa Powder.
" 20	"	47891	Geo. McLennon & Co., Clinton.	3 "	30	Cowan & Co., Ltd., Toronto.	
" 21	"	48208	McGuire & Co., Seaforth	3 "	45	J. S. Fry & Sons, Bristol, Eng.	Fry's Pure Breakfast Cocoa.
" 21	Chocolate	48213	T. S. Blues, Seaforth	3 "	45	"	Fry's Chocolate Powder.
" 22	Cocoa	48220	Knechtel Grocery Co., Stratford.	3 "	45	"	
" 24	Chocolate	48225	W. R. Butcher, St. Marys	3 "	30	"	Fry's Chocolate Powder.

AND CHOCOLATES.

Inspector's Report. (Is not on expression of opinion).	Results of Analysis. On Air-Dry Original Material. Ash. Total.	Ash. Soluble in Water.	Alkalinity of Ash in c.c.s. N/10 Acid per 1 gram Chocolate and Cocoa.	Moisture.	Fat. By Centrifuge.	Fat. By Continuous Extraction 16 hrs.	Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	No. of Sample.
H. J. DAGER, INSPECTOR.											
	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
	5 70	2 55	7 05	6 15	18 80	19 35		7 60		45	49347
	5 50										49348
Pure Cocoa imported by vendors.	5 09	3 07	6 60	3 95	24 05			7 08		60	49349
	4 79	1 74	5 20	2 95	6 00	6 10		5 26		36	*49350
	13 89	2 91	11 40	1 00	3 70	4 20		15 05		21	†49351
"Double Diamond" Chocolate.	1 07	0 52		0 97	22 10		63 32		7 86	38	49352
Vienna Sweet Diamond Chocolate.	1 32	0 49		1 22	22 15		55 93		6 37	37	49354
Cowan's Perfection Chocolates.	4 19	1 42	4 90	1 26	31 75			6 54		34	49355
	5 19	1 58	5 95	1 55	25 50			7 42		30	49356
JNO. TALBOT, ACTING INSPECTOR.											
	5 29										47882
Pure Gold Chocolate	‡										47887
Labelled Webb's Pure Cocoa Powder.	5 18	1 78	6 30	4 41	27 85			7 65		34	47888
	5 39										47891
Fry's Pure Breakfast Cocoa	5 41	1 02	8 10	4 76	30 45	31 30		8 41		73	48208
Fry's Chocolate Powder	1 22	0 42		1 10	23 05		59 25		7 35	34	48213
	5 45										48220
Fry's Chocolate Powder	1 18										48225

* Contains starch. † Contains excess of bark. ‡ Chocolate Jelly Pudding coll. by mistake.

BULLETIN No. 243—COCOAS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF WINDSOR							
1912.							
Feb. 12	Cocoa	47867	W. H. Tricker, Sarnia	3 pks.	30	Cowan Co., Ltd., Toronto.	
" 12	"	47869	R. Wanless, Sarnia	"	30	Tothunter, Toronto.	
" 6	"	48080	John Diprose, London, Ont.	"	30	Cowan Co., Ltd., Toronto.	
" 7	"	48083	Wm. Hayes, London, Ont	"	45	Walter Baker Co., Ltd.	
" 7	Chocolate	48086	Thos. Shaw, London, Ont.	"	30	J. S. Fry & Sons, Bristol, Eng.	
" 8	"	48095	Teeples Market, London, Ont.	"	30	" "	
" 8	Cocoa	48096	" "	"	30	" "	
DISTRICT OF MANITOBA—							
Feb. 20	Cocoa	48606	A. Macdonald & Co., Portage Ave., Winnipeg.	"	75	P. H. Suchards, Neuchatel, Suise.	
" 20	"	48607	Geo. Nixon & Co., Portage Ave., Winnipeg.	"	75	Cadbury, England	
" 20	"	48608	" "	"	75	Lowney & Co., Montreal.	
" 21	"	48609	N. Trimble, Portage Ave., Winnipeg.	"	45	Fry & Sons, Bristol, Eng.	
" 21	"	48610	" "	"	45	Baker & Co., Ltd., Montreal.	
" 21	Chocolate	48611	" "		75	W. Baker & Co., Ltd., Dorchester, Mass.	
" 21	"	48612	H. G. Weldon & Co., Portage Ave., Winnipeg.	"	45	" "	
" 21	"	48613	The Codville Co., Winnipeg.	"	13	J. S. Fry & Sons, Ltd., London, Eng	
" 21	"	48614	Foley Bros., & Larsen, Winnipeg.	"	50	W. Baker Co., Ltd., Dorchester, Mass.	
" 21	"	48615	" "	"	50	Lowney Co., Ltd., Montreal.	
DISTRICT OF CALGARY—							
Mar. 6	Cocoa	44121	Capitol Mercantile Co., Edmonton.	3 pks.	45	Walter Baker & Co., Ltd., Montreal.	
" 7	"	44122	Hudson Bay Co., Edmonton.	3 cans	30	The Cowan Co,, Toronto.	
" 7	"	44123	The Acme Co., Edmonton	3 "	45	Walter Baker & Co., Dorchester, Mass.	
" 7	"	44124	Chas. W. Campbell, Edmonton.	3 "	75	Jos. Tetley & Co., Ltd., London, Eng.	
" 7	"	44125	" "	3 "	90	C. J. Van Houten & Son, Weesp., Holland.	

SESSIONAL PAPER No. 14

AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. On Air-Dry Original Material. Ash. Total.	Ash. Soluble in Water.	Alkalinity of Ash c.c.s. $\frac{N}{10}$ Acid per gram Chocolate and Cocoa.	Moisture.	Fat. By Centrifuge.	Fat. By Continuous Extraction. 16 hrs.	Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	No. of Sample.
JNO. TALBOT, INSPECTOR.	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
Perfection Cocoa	5·26	1·69	6·20	4·17	25·25			7·45		32	47867
	6·12	1·62	6·25	3·05	23·70			8·35		26	47869
	5·19										48080
Breakfast Cocoa	5·22										48083
	1·24	0·41		1·05	23·80		57·14		6·89	33	48086
Fry's Chocolate Powder	1·28										48095
Pure Breakfast Cocoa	5·45										48096
A. C. LARIVIERE, INSPECTOR.											
"Ibis" Brand	6·67	4·93	8·70	3·95	30·55			10·17		74	48606
	8·20	6·72	10·05	3·90	27·20	28·15		11·90		82	48607
	5·14										48608
	5·52	4·13	8·15	4·45	31·25			8·39		75	48609
	5·74	1·89	6·85	3·50	24·80	25·30		8·01		33	48610
	3·26										48611
	2·93	1·11	3·50	1·95	54·35			6·70		38	48612
Fry's Diamond Sweet Chocolate.	0·92	0·33		1·11	22·50		60·90		5·94		48613
	3·18										48614
Lowney's Premium	3·24										48615
R. W. FLETCHER, INSPECTOR.											
	5·35	2·00	6·40	4·58	27·95			7·93		37	44121
	5·25										44122
	5·06										44123
	8·69	7·14	11·30	5·67	23·65	24·25		12·30		82	44124
	8·25	6·75	11·15	3·34	27·55			11·94		82	44125

BULLETIN No. 243—COCOAS

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF CALGARY—							
1912.							
Mar. 6	Chocolate...	44126	Capitol Mercantile Co., Edmonton.	1 tin .	50	Lowney's, Montreal.	
" 7	" ...	44127	Hudson Bay Co., Edmonton.	1 " ..	25	Cadbury, Bournville, Eng.	
" 8	" ...	44128	Hallier & Aldridge, Edmonton.	3 tins.	50	Lowney's, Montreal.	
" 8	" ...	44129	J. H. Morris Co., Ltd., Edmonton.	1 tin .	25	" " ..	
" 8	" ...	44130	City Grocery, Edmonton.	1 " ..	25	" " ..	
DISTRICT OF NELSON—							
Feb. 13	Chocolate...	48189	England & Sons, Kamloops.	½ lb ..	25	D. Ghirardette, San Francisco.	
" 13	" ...	48490	" " ..	3 tins.	30	W. M. Lowney Co., Montreal.	
" 13	Cocoa.....	48491	" " ..	½ lb ..	20	The Cowan Co., Toronto.	
" 13	"	48492	" " ..	¾ " ..	30	J. S. Fry & Sons, Bristol, Eng.	
" 13	Chocolate...	49607	Stevens & Allan, Kamloops.	½ " ..	25	W. M. Lowney Co., Montreal.	
" 13	" ...	49608	" " ..	½ " ..	25	W. Baker & Co., Dorchester, Mass.	
" 13	" ...	49609	" " ..	½ " ..	25	The Cowan Co.. Toronto.	
" 13	Cocoa.. .	49612	Wilson Grocery Co., Kamloops.	½ " ..	35	H. DeJong, Wormerveer, Holland.	
" 13	"	49613	" " ..	½ " ..	40	C. J. Van Houten & Son, Weesp, Holland.	
" 13	"	49614	" " ..	½ " ..	35	W. M. Lowney Co., Montreal.	
DISTRICT OF VANCOUVER—							
Feb. 13	Cocoa	38275	J. Graham, Milner, B.C..	3 pks.	30	Fry & Co., London, Eng.	
" 13	"	38276	Burrows & Carncross, Cloverdale, B.C.	½ lb...	30	Cowans, Ltd , Toronto.	
" 13	"	38277	H. V. Parr, Cloverdale, B.C.	½ " ..	55	Van Houten & Co...	
" 14	"	38278	Lillie's Cash Grocery, Chilliwack, B.C.	½ " ..	50	A. Dreissen, Rotterdam.	
" 14	" ...	38279	B. T. Malcolm, Chilliwack, B.C.	3 tins.	75	Jos. Tetley & Co., London, Eng.	

AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. On Air-Dry Original Material. Ash. Total.	Ash. Soluble in Water.	Alkalinity of Ash c.c.s $\frac{N}{10}$ Acid per 1 gram Chocolate and Cocoa.	Moisture.	Fat. By Centrifuge.	Fat. By Continuous Extraction 16 hrs.	Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	No. of Sample.
Concluded.											
	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
	3 04	1 02		1 76	16 30		43 87		7 98	33	44126
	1 65	1 04		1 04	7 35		69 50		7 46	63	44127
	2 59	0 88		1 78	16 20		47 95		7 60	34	44128
	2 64	0 88		1 71	15 35		48 10		7 58	33	44129
	3 20	1 07		1 87	16 75		42 37		8 20	33	44130
THOS. PARKER, INSPECTOR.											
	2 98	2 06		1 80	15 00		54 42		10 36	69	48489
	2 40	0 90		1 91	18 20		46 30		7 15	37	48490
	2 34	0 95	3 40	2 80	11 20		45 56		5 80	41	48491
	1 58	0 50	1 95	3 33	14 25		38 33		3 60	32	48492
	3 31										49607
	3 26										49608
	3 09	1 17	3 61	1 51	54 05			6 94		38	49609
	7 51	6 07	10 10	4 40	27 45			11 10		80	49612
	8 05	6 58	10 50	4 17	28 95			12 10		82	49613
	5 59	2 29	6 80	4 17	20 60			7 43		41	49614
J. F. POWER, INSPECTOR.											
Manufactured with Cocoa carefully selected for quality and flavour. Guaranteed.	1 67										38275
Absolutely pure	5 64	1 84	6 30	4 13	23 90			7 84		33	38276
Guaranteed pure soluble Cocoa.	7 95	6 47	10 40	4 34	28 95			11 92		81	38277
	6 80	4 85	9 10	4 82	27 70			10 08		71	38278
Absolutely pure and soluble	8 45	6 87	11 00	7 08	21 20			12 30		81	38279

BULLETIN No. 243—COCOAS

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF VANCOUVER—							
1912.							
Feb. 15	Chocolate...	38280	Des Brisay, General Stores, Mission Jct., B.C.	½ lb..	25	D. Chirardelli, San Francisco, Cal.	.....
" 15	" ...	38281	C. A. Welsh, New Westminister, B.C.	½ " ..	25	Lowney & Co., Toronto.	.....
" 15	" ...	38282	London Muffin Co., Smythe St., Vancouver, B.C.	½ " ..	30	C. Charlesworth, Water St., Van.	.....
DISTRICT OF VICTORIA—							
Feb. 27	Cocoa.....	47691	Windsor Grocery Co., Victoria, B.C.	3 pks	30	The Cowan Co., Ltd., Toronto.	.....
" 28	"	47692	The West End Grocery Co., Ltd., Victoria, B.C.	3 " ..	75	Ridgways, Ltd., London, Eng.	.....
" 29	"	47693	D. H. Ross, "	3 " ..	25	J. S. Fry, London, Eng.	.....
Mar. 1	"	47694	Copas & Young, Victoria, B.C.	3 " ..	75	Rowantree & Co., Ltd., York, Eng.	.....
" 1	" ...	47695	Wm. B. Hall, Victoria, B.C.	½ lb ..	30	H. D. Jong, Wormerveer, Holland.	.....
" 27	Chocolate...	47696	Windsor Grocery Co., Victoria, B.C.	1 " ..	50	Walter Baker & Co., Dorchester, Mass.	.....
" 28	" ...	47697	The West End Grocery Co., Ltd., Victoria, B.C.	1 " ..	35	Dom. Chocolate Works, Toronto.	.....
" 29	" ...	47698	D. H. Ross & Co., Victoria, B.C.	1 " ..	35	D. Ghirardellis, San Francisco, Cal.	.....
Mar. 1	" ...	47699	Copas & Young, Victoria, B.C.	½ " ..	25	The Cowan Co., Ltd., Toronto.	.....
" 6	" ...	47700	Harrison & McDonald, Victoria, B.C.	½ " ..	25	D. Ghirardellis, San Francisco, Cal.	.....

AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.											No. of Sample.
	On Air-Dry Original Material.											
	Ash.					Fat.						
	Total.	Soluble in Water.	Alkalinity of Ash c.c. s. 10 Acid per 1 gram Chocolate and Cocoa.	Moisture.		By Centrifuge.	By Continuous Extraction 16 hrs.	Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	
Concluded.												
	p.c.	p.c.			p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
Strictly pure..	2 77	1 96	. . .		1 92	44 20	.	58 50	. . . .	10 91	71	38280
Absolutely pure....	2 66	0 95	.....		2 55	15 20	.	47 80	.	7 72	36	38281
. . . .	2 84	2 00	.... . .		2 15	14 75	..	56 08	.....	10 51	70	38282
D. O'SULLIVAN, INSPECTOR.												
.. ..	5 05		.....			.....	....	.....	...	.....	..	47691
"Ridgways"..... .	6 08	4 45	8 10		5 71	29 70	.....	.....	..	9 41	73	47692
Frys	1 77	.	....		.	.	.....	..	.	.	.	47693
Rowantrees	7 74	6 40	10 10		4 80	28 00	..	..	.	11 52	83	47694
De Jong's	7 76	5 47	10 20		6 45	26 95	..	.....	..	11 65	70	47695
....	3 32	....	....		..	....	....	.	....	.	..	47696
Canadian Beaver Chocolate	0 74	0 32	..... .		1 50	24 70	. . .	52 54	...	3 48	43	47697
"Eagle" Brand....	1 49	0 55	.. ..		1 55	24 35	.	58 37	...	9 60	37	47698
"Cowans Perfection".....	3 86	1 48	4 98		4 60	31 10	....	.. ...	.. .	6 30	38	47699
Ground Chocolate	3 02	2 05	.....		2 89	15 40	.....	55 18	.....	11 38	67	47700

APPENDIX H.

BULLETIN No. 244—FRUIT JAMS.

Ottawa, December 6, 1912.

Wm. Himsworth, Esq.,
Acting Deputy Minister of Inland Revenue.

Sir,—I have the honour to hand you a report upon 158 samples purchased as jams in February and March of the present year. The results of analysis may be summarized thus:—

Addition of fruit juice acknowledged	18
Preservative or dye present	39
No explanatory statement	78
Sold as compound	3
Samples spoiled or broken	2
Containing glucose without acknowledgement	18
Total	158

Standards for fruit products were established under section 26 of the Adulteration Act, in October of this year, coming into force November 25, 1912. Circular G. 1044, containing the Order in Council in question, is as follows:—

Fruit and Fruit Products.

1. Fruits are the clean, sound, edible, fleshy fructifications of plants, distinguished by their sweet, acid and ethereal flavours.

2. Dried fruit is the clean, sound product made by drying matured properly prepared fresh fruit in such a way as to take up no harmful substances; and conforms in name to the fruit used in its preparation.

3 Evaporated fruit is dried fruit in whose preparation artificial heat has been employed.

4. Evaporated apples shall contain not more than 27 per cent of moisture.

5. Canned fruit is the sound product made by sterilizing clean, sound, properly matured and prepared fresh fruit, by heating with or without sugar, and keeping in suitable clean, hermetically sealed containers; and conforms in name to the fruit used in its preparation.

6. Preserve is the sound product made from clean, sound, properly matured and prepared fresh fruit and sugar syrup, with or without spices and vinegar, and conforms in name to the fruit used in its preparation.

7. Jam, marmalade, is the sound product made from clean, sound, properly matured and prepared fresh fruit or fruit pulp and sugar, with or without spices or vinegar, by boiling to a semi-solid consistence: and conforms in name to the fruit used in its preparation.

8. Fruit butter is the sound product made from fruit juice, and clean, sound, properly matured and prepared fruit, boiled to a semi-solid mass of homogeneous consistence, with or without the addition of sugar and spices or vinegar and conforms in name to the fruit used in its preparation.

9. Jelly, fruit jelly, is the sound, semi-solid gelatinous product made by boiling clean, sound, properly matured and prepared fresh fruit with water, concentrating the expressed and strained juice, to which sugar is added, and conforms in name to the fruit used in its preparation.

10. When jam, marmalade, fruit butter or jelly contains other fruit or fruit juice than that which gives its special name to the article, the fact of the presence of such other fruit shall be stated upon the label, in lettering as large and as distinct as that used in naming the fruit principally present. This requirement does not, however, apply to the use of fruit juice, up to the amount of ten (10) per cent of the weight of the jam, etc., used instead of water in the manufacture of the jam, etc.

11. When the sugar in preserve, jam, marmalade, fruit butter or jelly is wholly or partially replaced by glucose, or by any other substitute for sugar, the fact of such substitution shall be stated upon the label in plain lettering.

The standards above defined take effect on November 25, 1912.

Of course the samples now reported are not to be judged by the Standards above given.

After this date, it will be necessary to state the presence of glucose upon the label, whenever this article is present. Jams made with mixed fruits must also be properly described; although the addition of fruit juice up to ten per cent is not prohibited. Such juice, replacing water in the manufacture of the jam, doubtless adds to the value of the jam, and it is pleasing to note that in 18 samples examined, the maker has declared the presence of fruit juice.

Some makers of jam claim that the addition of small amounts of glucose improves the article. The question may be considered an open one; but it is fair to the purchaser that he should be advised of the presence of glucose, and this is now required by our standards. Several manufacturers who formerly used glucose, have given up its use within a year or two; and in such cases, it is only in their older product that we find glucose.

Under the circumstances I do not feel called upon to describe any of the samples now reported, as adulterated; although, had now existing standards been in force at the time of inspection, 18 samples would have been so described.

I beg to recommend the publication of this report as Bulletin No. 244.

I have the honour to be Sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion).	Solids Insoluble.
									p. c.
DISTRICT OF NOVA SCOTIA—									
1912.									
Feb. 19	Fruit Jam	47031	Wentzells, Ltd., Halifax, N.S.	3 jars.	60	W. P. Hartley, London, Eng	Manuf'rers		1·52
" 20	"	47032	J. L. Archibald & Son, Halifax, N.S.	3 "	75	Cairns, Paisley, Scot.	Jno. Tobin & Co., Halifax, N.S.		2·77
" 21	"	47033	J. F. Crowe & Co., Ltd., Halifax, N.S	3 "	56	C. E. Morton, London, Eng	Manuf'rers		1·92
" 22	"	47034	B. H. Dodge & Co., Kentville, N.S.	3 "	75	Wagstaffe, Hamilton, Ont.	H. R. Silver, Halifax, N.S.		2·34
" 23	"	47035	De Wolfe & Lamont, Kentville, N.S.	3 "	75	Aylmer Canning Co., Aylmer, Ont.	R. B. Seeton & Co., Halifax, N.S.		6·81
" 26	"	47036	Bauld Bros., Ltd., Halifax, N.S.	3 "	20	Chivers & Sons, Ltd., Cambridge, Eng.	Manuf'rers		4·20
" 26	"	47037	John Tobin & Co., Halifax, N.S.	3 "	45	Aylmer Canning Co., Aylmer, Ont.	"		5·06
" 26	"	47038	R. B. Calwell, Halifax, N.S.	3 "	35	E. D. Smith, Winona, Ont	"		2·86
" 26	"	47039	A. & W. Smith & Co., Halifax, N.S.	3 "	45	Simcoe Canning Co., Simcoe, Ont.	"		3·41
Mar. —	"	47040	H. R. Silver, Halifax, N.S.	3 "	nil	Wagstaffe, Hamilton, Ont.	"		2·63
DISTRICT OF PRINCE EDWARD ISLAND—									
Feb. 7	Fruit Jam	46176	Auld Bros., Charlottetown, P.E.I.	3 pkgs	45	T. Upton Co., Ltd., Hamilton, Ont.			*
" 7	"	46177	"	3 "	60	Crosse & Blackwell, London, Eng.			3·80
" 15	"	46178	Brace McKay Co., Ltd., Summerside, P.E.I.	3 "	60	Jno. Buchanan & Bro., Ltd., Glasgow.			5·30
" 16	"	46179	R. T. Holman, Ltd., Summer'de, P.E.I	3 "	60	Aylmer Canning., Hamilton, Ont.			6·00
" 16	"	46180	Waugh & Steeves, Sum'de, P.E.I.	3 "	1.05	Duerr's, Manchester, Eng.			0·85
" 19	"	46181	Beer & Goff, Ch'town, P.E.I.	3 "	75	J. A. Sharwood, Ltd., London, Eng			4·08

* Not analyzed.

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FRUIT JAMS.

Results of Analysis.

per cent. Soluble.	per cent. Total.	Water.	Polarization (normal solution). Direct.	Polarization (normal solution). Invert.	Polarization (normal solution). Difference.	Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.												
p. c.	p. c.	p. c.				p. c.	p. c.					
69·62	71·11	28·86	+19·2	−23·4	42·6	32·11	35·51	None	None	Strawberry tissues	47031	Genuine. Added fruit juice acknowledged on label.
71·20	73·97	26·03	+25·2	−23·3	18·5	36·50	34·64	"	"	"	47032	Genuine.
65·70	67·62	32·38	+ 3·2	−21·2	24·4	18·40	47·30	"	"	Plum tissues	47033	"
62·37	64·71	35·29	+ 1·4	−20·5	24·9	18·77	43·60	Salicylic acid.	Present.	Strawberry tissues	47034	Contains preservative and is dyed otherwise genuine
62·37	69·18	30·82	+ 2·8	−12·6	15·4	11·59	50·87	None	None	Raspberry tissues	47035	Contains glucose. Is an old sample.
70·75	74·95	25·05	+17·9	−22·8	46·7	30·68	10·07	"	"	Green gage tissues and stones.	47036	Genuine. Small addition of fruit jelly acknowledged on label
70·70	75·76	24·24	+18·9	−22·0	70·9	53·5	17·20	"	"	Peach tissues	47037	Genuine.
64·10	66·96	33·04	+10·0	−20·7	30·7	23·14	10·96	"	"	Strawberry tissues	47038	"
66·00	69·41	30·59	+11·7	−21·9	33·6	25·33	40·67	Salicylic acid trace.	"	Raspberry tissues	47039	" trace salicylic acid.
67·37	70·09	30·00	+11·9	−23·6	65·5	49·37	18·00	None	Present.	.....	47040	Contains dye. Otherwise genuine.
WM. A. WEEKS, INSPECTOR.												
											46176	Sold as compound.
68·90	72·70	27·30	+ 0·4	−22·2	22·6	17·04	51·86	None	None	Plum & raspb'y, etc., tis's	46177	Genuine.
65·70	71·00	29·00	− 5·0	−20·8	15·8	11·90	53·80	"	"	Plum tissues & stones	46178	
62·62	68·62	31·38	+ 9·3	−20·6	29·9	22·3	16·3	"	"	Raspberry tissues.	46179	"
64·50	65·35	34·65	+12·8	−22·0	34·8	26·23	38·27	"	"	Strawberry tissues	46180	Genuine. Apple jelly acknowledged on label.
66·37	70·45	29·55	+ 7·3	−21·4	28·7	21·63	41·74	"	"	Raspberry tissues	46181	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).	Solids Insoluble
DISTRICT OF PRINCE EDWARD ISLAND—									
1912.									p. c.
Feb. 19	Fruit Jam..	46182	Beer & Goff, Ch'town, P. E.I.	3 pkgs	75	Wagstaffe, Ltd Hamilton, Ont.	....	....	1·26
" 27	" .	46183	Coffin & Co., Ch'town, P. E.I.	3 "	60	Simcoe Canning Co., Simcoe, Ont.	..... .	.....	7·44
" 27	" ..	46184	"	3 "	45	R. F. Madigan & Co., Ch' town, P.E.I.	.....	....	†
" 27	" ..	46185	Joseph Crabbe Ch'town, P. E.I.	3 "	60	Lipton's, England.	.....	....	2·34
DISTRICT OF NEW BRUNSWICK—									
Feb. 6	Fruit jam...	45621	Baird & Peters, St. John, N.B	3 jars.	25	The Lynn Valley Canning Co., Simcoe, Ont.	.....	Sold as Compound.	*
" 7	" ..	45622	2 Barkers, Ltd. St. John, N.B	3 "	54	ClarkeNickolls & Coombs, London, Eng	.....	Plum	3·25
" 14	" ..	45623	Puddington, Wetmore Morrison, Ltd., St. John, N.B.	3 "	20	Chivers & S'ns, Ltd., Histon, Eng.	....	Strawberry....	3·71
" 27	" ..	45624	P. F. McKenna, St. Stephen, N.B.	3 "	75	Wm. P. Hartley, London, Eng.	....	Raspberry....	2·70
" 27	" ..	45625	F. E. Rose, St. Stephen, N.B	3 "	45	Lea's, Ltd., Simcoe, Ont.	.....	Strawberry. ..	5·53
Mar. 5	" ..	45626	G. T. Whelpley Estate, Fredericton, N.B.	3 "	75	E. D. Smith, Winona, Ont.	.....	Peach.....	3·00
" 7	" .	45627	D. R. Bedell, Andover, N. B.	3 "	75	John Stephen's Son & Co., Ltd., Gloucester, Eng.	.. ..	Raspberry. ..	2·92
" 8	" ..	45628	Geo. T. Baird Co., Ltd., Perth, N.B.	3 "	66	Macdonochie Bros., Ltd., London, Eng	....	Raspberry and Currant.	3·50
" 13	" ..	55629	D. A. McBeath, Moncton, N. B.	3 "	75	E. D. Smith, Winona, Ont.	....	Strawberry. ..	2·60
" 14	" ..	45630	George Tables, Newcastle, N.B.	3 "	75	Hudon, Hebert et Cie, Montreal.	.....	Strawberry "Gazelle" Brand.	4·40

† Both samples fermenting and partly leaked out. * Sold as compound.

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FRUIT JAMS.

Results of Analysis.													
per cent.			Polarization (normal solution.)									No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.	Difference.	Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.		
Concluded.													
p. c.	p. c.	p. c.				p. c	p. c.						
65·60	66·86	33·14	+ 1·6	− 22·0	23·6	17·80	47·80	None	Present slight	Gooseberry tissues		46182	Genuine.
64·37	71·81	28·19	+24·0	−19·7	43·7	32·94	31·43	Salicylic acid trace	None.	Raspberry tissues.		46183	" trace salicylic acid.
....	....	....	....	....	....	....	....	.....	.....	.....		46184	Samples spoiled.
69·59	71·84	28·16	+16·0	−22·6	38·6	29·10	40·40	None	None	Strawberry tissues		46185	Genuine.
J. C. FERGUSON, INSPECTOR.													
....	....	....	....	....	....	....	....	....		....		45621	Sol as compound.
68·00	71·25	28·75	+27·9	−3·8	24·1	18·16	49·84	None	None.	Plum tissues & a very few stones.		45622	Contains glucose.
67·50	71·21	28·79	+26·4	21·7	48·1	36·26	31·24	"	"	Strawberry tissues.		45623	Genuine. Fruit jelly acknowledged on the label.
70·37	73·07	26·93	+10·7	−23·0	33·7	25·40	44·97	"	"	Raspberry tissues		45624	Genuine. Fruit juice acknowledged on the label.
55·75	61·28	38·72	+4·3	17·0	21·3	16·05	39·70	Benzoic acid trace.	"	Strawberry tissues.		45625	Trace of preservative otherwise genuine.
62·25	65·25	34·75	+20·6	−18·8	39·4	29·70	34·55	None	"	Peach tissues.		45626	Genuine.
68·90	71·82	28·18	+5·0	−22·5	27·5	20·73	48·17	"	"	Raspberry tissues.		45627	Genuine. Fruit juice acknowledged on the label.
67·70	71·20	28·80	−18·2	22·0	3·8	2·86	64·84	"	"	Raspberry & currant tissues		45628	Genuine.
64·37	66·97	33·03	−12·9	−21·4	8·5	6·41	57·96	"	"	Strawberry tissues.		45629	"
66·62	71·02	28·98	+25·7	−22·2	47·9	36·11	30·51	"	"	"		45630	"

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion).	Solids Insoluble.
DISTRICT OF QUEBEC—									
1912.									p. c.
Feb. 7	Fruit Jam.	37378	Arthur Drolet, 714 Rue St. Valier, Que.	3 pkgs	15	Chivers & S'ns, Histon, Cambridge, Eng.	J. B. Renaud Quebec.		3·41
" 7	" ..	37379	" ..	3 "	15	" ..	" ..		3·68
" 7	" ..	37380	" ..	3 "	75	Cairns, Paisley, Scotland	Hudon & Hebert, Montreal.		3·16
" 7	" ..	37381	" ..	3 "	75	" ..	" ..		1·56
" 7	" ..	37382	" ..	3 "	75	" ..	" ..		3·18
" 7	" ..	37383	" ..	3 "	75	" ..	" ..		4·15
" 7	" ..	37384	" ..	3 "	75	Aylmer Canning Co., Hamilton.	Langlois & Paradis.		7·28
" 7	" ..	37385	" ..	3 "	75	" ..	" ..		6·79
" 7	" .	37386	" ..	3 ·	75	Ross and Laflamme.	Manufacturers.		2·90
" 7	" ..	37387	" ..	3 "	105	Duerr's, Manchester, Eng.	J. B. Renaud Quebec.		1·33
DISTRICT OF ST. HYACINTHE—									
Feb. 20	Fruit jam...	39023	J. A. Baraby, St. Jean.	3 jars.	75	Robertson, Paisley, Scotland.		Blackberry ...	2·11
" 20	" ..	39024	G. Dupuis, St. Jean.	3 "	90	Vendor.		Strawberry....	2·31
" 21	" ...	39025	Magog Co-op. Society.	3 "	60	Jos. Lamoureux, Montreal.	American Pure Food Co., Montreal.		*
" 22	" ...	39026	Theriault & Leduc, Sherbrooke.	3 "	60	Aylmer Canning and Preserving Co., Hamilton.		Plum... . .	5·88
Mar. 20	" ...	39027	E. J. Pearson, Richmond.	3 "	75	J. Robertson & Sons, Manchester, Eng.		Strawberry....	1·

* Not analysed.

FRUIT JAMS.

Results of Analysis.												
per cent.			Polarization (normal solution).									
Soluble.	Total.	Water.	Direct.	Invert.	Difference.	Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
F. X. W. E. BELAND, INSPECTOR.												
p. c.	p. c.	p. c.				p. c.	p. c.					
69·87	73·28	26·72	+23·6	−23·0	46·6	35 13	31 74	None.	None	Strawberry tissues	37378	Genuine; addition of fruit jelly acknowledged.
69·30	72 98	27·02	20 0	−23 0	43 0	32 41	36 89	"	"	Raspberry tissues.	37379	"
68·75	71 91	28·09	13·7	22·5	8 8	6 63	62 12	"	"	"	37380	"
64·50	66·06	33·91	−9·7	−20 8	30·5	23·00	41·50	"	"	Apricot tissues	37381	"
62 12	65·30	34·70	−14·2	−19·8	5·6	1 22	57·90	"	"	Black currant tissues	37382	"
59 62	63 77	36·23	+4·4	18 9	23·3	17 56	42 60	"	"	Plum tissues & stones	37383	"
65·11	72 39	27 61	+23 0	−19 1	42 4	31 8	33 21	"	"	Strawberry tissues	37384	"
61·26	68·05	31·45	+21·0	16·2	37·2	28·0	33 36	"	"	Raspberry tissues.	37385	Samples received broken and partly leaked out.
68 62	71·52	28·48	+11 6	−21 7	32·7	24 65	43 97	"	"	Fig and lemon tissues	37386	Genuine.
66·50	67·83	32·17	+17·3	22 8	40 1	30·23	36 27	"	"	Strawberry tissues	37387	Genuine. Apple jelly acknowledged.
J. C. ROULEAU, INSPECTOR.												
71·00	73 11	26·89	+19 6	24 7	44·3	33 10	37·60	None.	None	Blackberry tissues	39023	Genuine.
44·62	46·93	53·07	1 9 0	−9 7	18·7	14 10	30·52	"	"	Strawberry tissues	39024	A preserved fruit—not a jam. Genuine.
.....	.....	....	....	.....	.....	.....	.....	.....	.....	.....	39025	Sold as compound.
65·10	70 98	29·02	+9·5	19·6	29 1	21 9	43 20	None.	None.	Plum tissues and stones	39026	Genuine.
69 10	70·74	29·26	+20·4	−22·5	42·9	32·34	36·76	Salicylic acid.	slightly dyed	Strawberry tissues	39027	Contains Salicylic acid and is dyed. Otherwise genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).	Solids Insoluble.
DISTRICT OF ST. HYACINTHE—									
1912.									p.c.
Mar. 22	Fruit jam ..	39028	Basinet & Brodeur, St. Hyacinthe.	3 jars.	75	L. Noel & Sons, London, Ltd. S.E.	.....	Raspberry	4·74
" 22	" ...	39029	J. B. J. Phaneuf, St. Hyacinthe.	3 "	90	E. Chaput, L. Egypte.	.....	Strawberry....	7·48
" 23	" ..	39030	A. Brodeur, St. Hyacinthe.	3 "	75	Chivers & Sons Ltd., Eng.	.. ..	Raspberry	2·54
" 23	" ...	39031	J. B. St. Pierre, St. Hyacinthe.	3 "	75	A. Cairns & Sons, Paisley, Scotland	.....	Peach	1·87
DISTRICT OF MONTREAL—									
Feb. 13	Fruit jam...	40811	L. Chaput, Fils et Cie., Ltd., De Brisbois St., Montreal	3 jars.	53	Aylmer Canning Co., Ltd.	.....	Raspberry	5·50
" 13	" ...	40812	"	3 "	54	E. D. Smith..	....	"	5·11
" 13	" ...	40813	"	3 "	52	T. Upton Co., Ltd.	....	"	6·46
" 13	" ...	40814	Mrs. Luke, 38 Victoria St., Montreal.	3 "	30	Vendor.....	....	Plum.... ...	5·53
" 13	" ...	40815	"	3 "	45	"	....	Black Currant	6·90
" 13	" ...	40816	"	3 "	45	"	.....	Strawberry....	3·57
" 13	" ...	40817	St. Louis Preserving Co., Ltd., Montreal.	3 "	60	Vendors.....	....	"	1·33
" 13	" ...	40818	"	3 "	60	"	.....	Raspberry	6 90
" 13	" ...	40819	"	3 "	60	"	....	Plum... .. .	1 66
" 14	" ..	40820	W. Schwartz, 100 St. Catherine Street West, Montreal.	3 "	60	Aylmer Canning Co., Ltd.	....	"	6·45

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

per cent.			Polarization (normal solution.)			Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble	Total.	Water.	Direct.	Invert.	Difference.							
p c.	p.c.	p.c.				p c.	p c.					
65·90	70 64	29 36	0·6	15 2	14 6	11 00	54 90	None	None	Raspberry tissues	39028	Contains glucose. Old sample.
50 75	58 23	41 77	6 7	16 0	9 3	7 01	43·74	"	"	"	39029	Genuine.
68 62	71 16	28·84	+5·7	22 0	27 7	20 88	47·44	"	"	"	39030	Genuine. Fruit jelly added and acknowledged.
67·87	69 74	30 26	+12 2	22 6	34 8	26 23	41 64	"	"	Peach tissues	39031	Genuine.

Concluded.

J. J. COSTIGAN, INSPECTOR.

59·10	64·60	35 40	+8 8	−19 5	28 3	21 0	38·10	None.	None	Raspberry tissues	40 11	Genuine.
62 00	67·11	32 89	+7 8	−21·2	29 0	21 86	40·14	"	"	"	40812	"
56·87	63 33	36·67	+15·9	18 9	34 8	26·23	30 64	"	"	"	40813	"
55·87	61 40	38 60	13 9	15·1	1·2	0 90	54 97	"	"	Plum tissues	40814	"
55·37	62 27	37·73	−11·1	−16 6	5·5	4 14	51 23	"	"	Black Currant tissues	40815	"
59 50	63·07	36 93	13·6	−18 5	4 9	3·70	55 80	"	"	Strawberry tissues	40816	"
68·25	69 58	30·42	+67·6	+24 8	42·8	32 25	36 00	Salicylic acid.	"	"	40817	Contains glucose and a preservative.
61·80	68 70	31 30	+51·5	+21 1	33·4	25·18	36·62	"	"	Raspberry tissues	40818	"
68·90	70 50	29·50	+47 8	−21 4	26·4	19 90	49·00	"	"	Plum tissues only.	40819	"
61·40	66 95	33·05	+9·6	−15 2	24 8	18 7	41·70	None	"	Plum tissues and stones	40820	Contains glucose. Old sample.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids — Insoluble.
				Quantity.	Cents.	Manufacturer.	Furnisher.		
									DISTRICT OF OTTAWA—
1912.									p. c.
Feb. 5	Fruit Jam..	50141	The A. B. Scott Co., Smith's Falls.	3 jars.	105	Duerr's, England.	Robertson & Nicolle, Smith's Falls.	Raspberry Warranted Pure.	1·00
" 7	" ..	50142	A. Edwards, Cornwall.	3 " .	45	Lea's, Ltd., Simcoe, Ont	Mfrs.....	Strawberry absolutely pure.	3·38
" 9	" ..	50143	John Simpson & Son, Alexandria.	3 " .	75	Robertson's Paisley, Scotland.	Mathewson's Sons, Montreal.	Green gage ..	4·54
" 12	" .	50144	R. Richardson, Preston St., Ottawa.	3 " .	75	E. D. Smith, Winona, Ont	Unknown...	Strawberry....	4·13
" 13	" ..	50145	P. J. Campbell Renfrew.	3 " .	45	Simcoe Canning Co. Simcoe, Ont.	W. J. Craig, Kingston.	"	4·71
" 19	" ..	50146	Jos. P. Valiquette, Dalhousie St., Ottawa.	3 " .	51	Dom. Canners Ltd., Montreal.	Major's Ltd. Ottawa.	Peach.....	5·67
" 19	" ..	50147	L. Malette, Dalhousie St., Ottawa.	3 " .	60	John Gray & Co., Ltd., Glasgow.	Mfrs..	Strawberry....	1·37
" 19	" ..	50148	Jas. Mundy, Grocer, Ottawa.	3 " .	75	C. & E. Morton London, Eng	"	Black Currant	3·14
" 19	" .	50149	" .	3 " .	75	" .	" . . .	Red Currant..	3·92
" 20	" ..	50150	Bryson Graham Ltd., Ottawa.	3 " .	75	Cairns, Paisley, Scotland	"	Plum.....	2·86
									DISTRICT OF KINGSTON—
Feb. 5	Fruit Jam..	49541	H. M. Stover, Kingston.	3 pkgs	45	Simcoe Canning Co.	.....	Strawberry....	3·54
" 5	" ..	49452	J. Lee, Kingston.	3 " .	75	Millar Co. Ltd. Belfast, Ireland.	.....	Raspberry....	4·23
" 5	" ..	49543	W. J. Nesbitt, Kingston.	3 " .	75	J. Wagstaffe, Ltd.	....	"	4·25
" 5	" ..	49544	H. A. Smith, Kingston.	3 " .	35	E. D. Smith, Winona, Ont	... .	Crab apple....	Trace
" 6	" ..	49545	Wm. Davies, Kingston.	3 " .	60	Chivers & S'ns, Histon, Cambridge, Eng.	.....	Strawberry....	2·65
" 6	" ..	49546	A. Glover, Kingston.	3 " .	75	Crosse & Blackwell, London, Eng.	.....	Raspberry....	3·00

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FRUIT JAMS.

Results of Analysis.													
per cent.			Polarization (normal solution).			Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.	Difference.							
J. A. RICKEY, INSPECTOR.												
p. c.	p. c.	p. c.				p. c.	p. c.					
65·37	66·37	33·63	3 6	22 0	18 4	13·87	51·50	None.	None	Strawberry tissues.	50141	Genuine. Apple jelly acknowledged
58 87	62·25	37·75	+4 3	18·1	22 4	16·89	41·98	Benzoic acid.	"	"	50142	Contains a preservative. Otherwise genuine.
61·37	68·91	31 09	+6·4	−18 7	25·1	18 92	45·45	None.	"	Plum tissues	50143	Genuine.
58·75	62 88	37 12	11 0	18·6	7·6	5·73	53 02	"	"	Strawberry tissues	50144	"
67·60	72 31	27·69	−39 3	−23 1	62 4	47 07	20·53	Salicylic acid.	"	"	50145	Preservative. Otherwise genuine
72·00	77 67	22 31	+39 0	22 0	61 0	45·9	26 10	None.	"	Peach tissues	5014	Genuine.
67 12	68·49	31·51	5 3	21 4	16·1	12 14	54·98	"	"	Strawberry tissues.	50147	"
68 37	71 51	28·49	+3·2	22 0	25·2	19 00	49·37	"	"	Currant tissues.	50148	"
68 50	72 42	27·58	+1 4	−23·1	24·5	18 47	50 03	"	"	"	50149	"
66·75	69·61	30 39	+5 3	−20 9	26·2	19 75	47 00	"	Present.	Plum tissues & stones	50150	Dyed. Otherwise genuine.
JAS. HOGAN, INSPECTOR.												
69·75	73·29	26·71	+10·5	−23·4	63 9	48 17	21 58	Salicylic acid.	None.	Strawberry tissues.	49541	Preservative present. Otherwise genuine.
66·87	71·10	28·90	+5 7	−9·7	15 4	11 61	55·26	None.	"	Raspberry tissues	49542	Contains glucose.
66·87	71·12	28 88	+18 6	−23·1	41·7	31 44	35·43	"	Present.	Raspberry & Currant tissues.	49543	Dyed. Otherwise genuine.
70·12	70 12	29·88	+12·1	−26 7	38·8	28 95	41 17	"	None	Crab apple jelly	49544	Genuine.
70·37	73·02	26·98	+17·3	−23·0	40·3	30 37	40 00	"	"	Strawberry tissues	49545	Genuine. Fruit jelly acknowledged
61·10	67·10	32 90	+6·1	−21 2	27·3	20·58	43·52	"	"	Raspberry tissues	49546	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report (Is not an expression of opinion).	Solids Insoluble.
									p. c.
DISTRICT OF KINGSTON—									
1912.									
Feb. 6	Fruit Jam..	49547	J. Gilbert, Kingston.	3 pkgs	75	Clark, Nickells & Coombs, London.	.....	Black Currant	2·74
" 7	" ..	49548	H. E. Fairfield. Belleville.	3 "	30	Lea's, Simcoe.	.....	Strawberry....	3·85
" 7	" ..	49549	J. Hilton, Belleville.	3 "	60	J. Robertson & Sons, Paisley.	.....	Raspberry....	2 52
" 7	" ..	49550	Geo. Pearson, Belleville.	3 "	105	Duerr's Manchester.	.....	Strawberry....	1·28
DISTRICT OF TORONTO—									
Feb. 5	Fruit Jam..	49317	The Canada Preserving Co., Pinest., Hamilton.	3 jars.	50	Vendors.....	.....	Graham's Pure Raspberry Jam.	5·18
" 5	" ..	49318	The T. Upton Co., Ltd., Hamilton.	3 "	50	"	.....	Upton's Pure Strawberry Jam.	1·80
" 5	" ..	49319	Wagstaffes, Ltd., Hamilton.	3 "	60	"	.....	Wagstaffe's fi'e Old English Pure Peach Jam.	1·80
" 5	" ..	49320	Aylmer Canning Co., Ltd., Hamilton.	3 "	38	Simcoe Canning Co , Simcoe.	.....	Strawberry. Guaranteed absolutely pure.	3·24
" 6	" ..	49322	E. D. Smith, Winona.	3 "	42	Vendor	.....	Raspberry....	2·20
" 6	" ..	49323	Bell Fruit Farms, Ltd., Grimsby.	3 "	45	Vendors.....	.....	Bell Brand Raspberry Jam.	6·32
" 14	" ..	49324	The T. A. Lytle Co., Ltd., 106 Sterling rd., Toronto.	3 "	48	"	.....	Pure Strawberry Jam.	3·73
" 21	" ..	49325	T. H. Brown, Collingwood	3 "	30	Lea's, Ltd., Simcoe.	.....	Absolutely Pure Strawberry Jam.	3·60
" 28	" ..	49326	Frank Giles, Yonge st., Toronto.	3 "	60	Mrs. A. E. Scott, Toronto	.....	Home made Pure Raspberry Jam.	2·80
" 28	1 ..	49400	Wilson Clyne, 317 Parliament st., Toonto.	3 "	45	Simcoe Canning Co., Simcoe.	.....	Absolutely Pure Strawberry Jam.	2·20

FRUIT JAMS.

Results of Analysis.

per cent.			Polarization (normal solution).									
Soluble.	Total.	Water.	Direct.	Invert.	Difference.	Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.

Concluded.

p. c.	p. c.	p. c.			p. c.	p. c.	p. c.					
65·90	68·64	31·36	+11·0	−21·7	32·7	21·65	11·25	None	None	Black Currant tissues	49547	Genuine.
59·00	62·85	37·15	10·1	18·9	8·5	6·40	52·60	Benzoic acid.	"	Strawberry tissues	49548	Preservative. Otherwise genuine.
69·87	72·39	27·61	+22·0	−23·1	45·1	31·00	35·87	None.	"	Raspberry tissues	49549	Genuine.
67·25	68·53	31·47	+3·8	23·0	26·8	20·29	17·05	"	"	Strawberry tissues.	49570	Genuine apple jelly acknowledged on label.

H. J. DAGER, INSPECTOR.

63·90	69·08	30·92	+21·6	21·9	43·5	32·80	31·10	Benzoic acid.	None	Raspberry tissues.	49317	A preservative. Otherwise genuine.
63·12	61·92	35·08	+26·3	−16·2	42·5	51·50	31·62		"	Strawberry tissues.	49318	"
67·50	69·30	30·70	+43·9	−21·5	68·4	51·56	15·91	Salicylic acid.	"	Peach tissues.	49319	"
67·50	70·74	29·26	+31·0	23·0	54·0	40·70	26·80	None	Present.	Strawberry tissues.	49320	A dye. Otherwise genuine.
61·50	63·70	36·30	+18·9	−20·9	39·8	30·00	31·50	—	—	Raspberry tissues.	49322	" "
62·37	68·69	31·31	+33·6	21·5	55·1	11·53	20·81	—	"	"	49323	" "
54·30	58·03	41·97	+21·2	−16·5	37·7	28·12	25·85	Benzoic acid trace	None.	Strawberry tissues	49324	Trace preservative. Otherwise genuine.
58·62	62·22	37·78	11·0	−18·2	7·2	5·42	53·20	Benzoic acid	"	"	49325	Preservative. Otherwise genuine.
61·10	66·90	33·10	7·7	22·2	14·5	10·93	53·17	None	Present.	Raspberry tissues.	49326	Dyed. Otherwise genuine.
61·87	67·07	32·93	+10·7	20·9	31·6	23·82	41·05	"	None	Strawberry tissues.	49100	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Nature and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion)	Solids Insoluble.
DISTRICT OF LONDON—									
1912.									p. c.
Feb 20	Fruit Jam..	47897	J. P. Sheppard, Clinton.	3 jars.	75	T. Upton Co., Ltd.. Hamilton.	.....	Labelled. Upton's Pure Strawberry Jam.	4·43
" 20	" ..	47898	" ..	3 "	75	" ..	....	Raspberry. ...	6·88
" 21	" ..	48207	McGuire & Co., Seaforth.	3 "	45	Lea's, Ltd., Simcoe.	....	Strawberry....	3·64
" 21	" ..	48209	H. Livingston, Seaforth.	3 "	75	Vendor	. ...	Cranberry preserves.	2·68
" 22	" ..	48214	Walsh Bros., Stratford.	3 "	90	Duerr's, Manchester, Eng.	....	Raspberry....	3·1
" 22	" ..	48215	" ..	3 "	90	" ..	....	Black Currant	5·06
1 22	" ..	48216	A. Beattie & Co., Stratford	3 "	75	Maconochie, London, Eng.	....	Raspberry....	3·55
" 22	" ..	48221	Oman & Mallion, Stratford	3 "	60	Wags'ffe, Ltd. Hamilton.	....	"	2·31
" 22	" ..	48222	Barnsdale Trading Co., Stratford.	3 "	60	T. Upton Co., Ltd., Hamilton.	.....	"	7·44
" 24	" ..	48227	A. Beattie & Co., St. Mary's	3 "	60	Crosse & Blackwell, London, Eng.	....	....	0·47
DISTRICT OF WINDSOR—									
Feb. 12	Fruit Jam..	47866	W. H. Tricker, Sarnia.	3 jars.	75	Wagstaffe, Ltd Hamilton.	....	Blackberry Preserves.	4·72
" 12	" ..	47868	R. Wanless & Co., Sarnia.	3 "	60	Maconochie's, London, Eng	... .	Raspberry Jam	3·26
" 12	" ..	47870	A. H. Gammon & Son, Sarnia	3 "	75	Canada Preserving Co., Hamilton.	....	Graham's "Lily" Brand Pure Strawberry Jam.	5·46
" 13	" ..	47877	Wm. Cross, Strathroy.	3 "	75	Lea Pickling & Preserving Co., Simcoe.	. .. .	Strawberry Preserves.	3·03
" 6	" ..	48078	A. J. Clark & Co., London.	3 "	75	Cairns, Paisley Scotland.	....	Raspberry Jam.	5·53
" 7	" ..	48082	E. S. English, London.	3 "	75	Wagstaffe, Ltd Hamilton.	....	Pure Raspberry Jam.	3·60

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.												No. of Sample.	Remarks and Opinion of the Chief Analyst.
per cent.			Polarization (normal solution).			Residual cane sugar	Soluble matter other than cane sugar.	Preservative.	Dyes.	Microscopical examination.			
Soluble.	Total.	Water.	Direct.	Invert.	Difference.								
JNO. TALBOT, ACTING INSPECTOR.													
p. c.	p. c.	p. c.				p. c.	p. c.						
61·90	66·33	33 67	+ 7·4	−20·1	27·5	20 73	41·17	Benzoic acid.	None.	Strawberry tissues.		47897	A preservative. Otherwise genuine.
55·87	62 75	37 25	+ 5·1	−18·2	23·3	17 56	38 31	Trace of benzoic acid.	"	Raspberry tissues.		47898	Trace preservative. Otherwise genuine.
61·37	65 01	31·99	−12·9	−19·2	6·3	4 75	56·62	Benzoic acid.	"	Strawberry tissues		48207	Preservative. Otherwise genuine.
44·25	46·93	53·07	−12 7	−13 0	0 3	0 22	44 03	None	"	Cranberry tissues		48209	Genuine. A preserve.
67·75	70·91	29·09	+28·9	−22 6	51 5	38 82	28·93	"	"	Raspberry tissues.		48214	Genuine.
61 50	66·56	83·44	+ 3·0	−19·7	22·7	17 11	44 39	"	"	Currant tissues.		48215	"
62·87	66·42	33·58	+18·4	+12·4	6 0	4 52	58 35	"	"	Raspberry tissues.		48216	Contains glucose.
65·25	67·56	32·44	+31·7	−22 5	54 2	40 86	21·39	"	Present.	"		48221	Dyed. Otherwise genuine.
56·50	63·94	36·06	+ 8·4	−18 6	27·0	20·35	36 15	Trace of benzoic acid.	None.	"		48232	Trace preservative. Otherwise genuine.
65·25	65·72	31·28	−10·4	−22·0	11·6	8·74	56·51	None.	"	Pine apple tissues		48227	Genuine.
JNO. TALBOT, INSPECTOR.													
24·25	28·97	71·03	− 7·3	− 7·3	0 0	0 0	24 25	Salicylic acid.	None	Blackberry tissues.		47866	Preservative. Is a preserve.
65·60	68 86	31 14	+11·2	−22 2	33 4	25 18	40 42	None.	Present	Raspberry tissues.		47868	Dyed Otherwise genuine.
58 25	63·71	36·29	− 2 0	−18·5	16·5	12 41	15 81	Benzoic acid.	None.	"		47870	Preservative. Otherwise genuine.
61 25	64·28	35 72	0·0	−20·1	20·1	15·15	46 10	None.	"	Strawberry tissues.		47877	Genuine.
68 00	71·53	28·47	−12 0	−21·5	9 5	7·16	60 84	"	"	Raspberry tissues.		48078	"
67·25	70·85	29·15	+24·5	−23·9	48·4	36·48	30·77	"	Present slight.	"		48082	Trace dye. wise genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Addres of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids
				Quantity	Cents.	Manufacturer.	Furnisher.		Insoluble.
DISTRICT OF WINDSOR—									
1912.									p. c.
Feb. 7	Fruit Jam .	48085	E. & O. Boug., London.	3 jars.	30	Lea's, Ltd., Simcoe.	.....	Strawberry Preserves.	3·57
" 7	" ..	48089	G. S. Pettit, London East	3 "	75	Wagstaffe, Ltd Hamilton.	....	Black Currant Jam.	2·08
" 8	" ..	48092	R. W. James, London East	3 "	60	E. D. Smith, Winona.	.....	" ..	3·70
DISTRICT OF MANITOBA—									
Mar. 11	Fruit Jam..	47489	J. Grant, grocer, Winnipeg.	3 pks.	45	E. D. Smith, Winona, Ont	....	.....	3·10
" 11	" ..	47490	" ..	3 "	75	Chivers & Sons, Ltd., Histon, Cambridge, Eng.	.....	Strawberry....	4·40
" 11	" ..	47491	" ..	3 "	75	L. Noel & Sons, Ltd., London	.....	Raspberry....	4·77
" 11	" ..	47492	S. Goddard, grocer, Winnipeg.	3 "	75	Jno. Buchanan & Bros., Ltd., Glasgow.	....	Strawberry....	1·24
" 11	" ..	47493	" ..	3 "	75	Jas. Robertson & Sons, Manchester, Eng	.....	" ..	2·23
" 11	" ..	47494	" ..	3 "	75	W. P. Hartley, Liverpool, Eng.	....	Black Currant	3·03
" 11	" ..	47495	W. J. Kennedy, grocer, Norwood Grove.	3 "	105	E. D. Smith, Winona, Ont	....	Pear.....	1·72
" 11	" ..	47496	" ..	3 "	75	Jno. Buchanan & Bros., Ltd., Glasgow.	....	Plum	2·71
" 11	" ..	47497	" ..	3 "	75	" ..	....	Apricot.....	0·88
" 11	" ..	47498	Francis Bros., grocers, Norwood Grove.	3 "	75	Clarke Nicklalls & Coombs London.	....	Strawberry..	3·15

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FRUIT JAMS.

Results of Analysis.													
per cent.			Polarization (normal solution).								No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.	Difference.	Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.		

Concluded.

p. c.	p. c.	p. c.				p. c.	p. c.					
57·62	61·19	38·81	− 9·9	− 17·6	7·7	5·80	51·82	Trace of benzoic acid.	None	Strawberry tissues.	48085	Trace preservative. Otherwise genuine.
65·00	67·08	32·92	+ 5·1	− 21·9	27·0	20·30	44·70	None.	"	Black currant tissues.	48089	Genuine.
59·87	63·57	36·43	+ 6·6	− 21·4	28·0	21·10	38·77	"	"	"	48092	"

A. C. LARIVIERE, INSPECTOR.

59·50	62·60	37·40	9·5	− 16·5	7·0	5·28	54·22	None	None	Plum tissues.	47489	Genuine.
67·60	72·00	28·00	+30·5	− 22·5	53·0	39·95	27·65	"	"	Strawberry tissues.	47490	" Fruit jelly acknowledged on the label.
65·89	70·57	29·43	+ 6·6	− 15·1	21·7	16·36	49·44	"	"	Raspberry tissues.	47491	Contains glucose.
67·37	68·61	30·39	+12·4	− 21·7	34·1	25·70	41·67	"	Present	Strawberry tissues.	47492	Dyed. Otherwise genuine; fruit jelly acknowledged.
67·70	69·93	30·07	+20·0	− 22·2	42·2	31·80	35·99	Salicylic acid trace	Slightly dyed	"	47493	Trace salicylic acid and dye. Otherwise genuine.
69·30	72·33	27·67	+11·4	− 23·0	34·4	25·93	63·37	None.	None.	Currant tissues.	47494	Genuine.
68·62	70·34	29·66	+ 4·1	− 22·8	26·9	20·28	48·34	"	"	Pear tissues.	47495	"
68·75	71·46	28·54	+ 0·8	− 21·5	22·3	16·80	51·95	"	Present.	Plum tissues & very few stones.	47496	Dye. Otherwise genuine with fruit jelly acknowledged
68·50	69·38	30·62	+16·6	− 21·9	38·5	29·02	39·48	"	None.	Apricot tissues.	47497	Genuine with fruit jelly acknowledged
66·12	69·27	30·73	+12·2	− 21·9	34·1	25·70	40·42	"	"	Strawberry tissues.	47498	Genuine. Fruit jelly acknowledged.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion).	Solids Insoluble.
						DISTRICT OF CALGARY—			
1912.									p. c.
Mar. 6	Fruit Jam..	44141	Capitol Mercantile Co., Edmonton.	3 bots.	75	Wagstaffe, Ltd Hamilton.			5·00
" 7	" ..	44142	Hudson Bay Co., Edmonton.	3 "	75	Empress Mfg. Co., Ltd., Vancouver.			5·41
" 7	" ..	44143	Acme Co., Edmonton.	3 "	90	Crosse & Blackwell, London Eng.			5·32
" 8	8 ..	44144	Hallier & Aldridge, Edmonton.	3 "	75	Chivers & Sons, Ltd., Histon Cambridge, Eng.			4·80
" 8	" ..	44145	J. H. Morris Co., Ltd., Edmonton.	3 "	75	Kootenay Jam Co., Ltd., Nelson, B.C.			3·94
" 14	" ..	44146	L.T. Mewburn & Co., Ltd., Calgary.	3 jars.	60	Wagstaffe, Ltd Hamilton.			2·47
" 14	" ..	44147	Georgeson Co., Ltd., Calgary	3 "	65	E. D. Smith, Winona, Ont			3·90
" 14	" ..	44148	Campbell, Wilson & Horne, Calgary.	3 "	60	W.P. Hartley, Liverpool, Eng.			1·23
" 14	" ..	44149	The Alberta Empress Co., Ltd., Calgary	3 "	60	Empress Mfg. Co., Ltd., Vancouver.			2·80
" 14	" ..	44150	Hudson Bay Co., Calgary	3 "	75	E. D. Smith. Winona, Ont			5·35
						DISTRICT OF NELSON—			
Feb. 13	Fruit Jam..	48196	England & Son, Kamloops, B.C.	3 bots.	75	Wagstaffe, Ltd Hamilton.			2·72
" 13	" ..	48197	" .	3 jars.	75	Crosse & Blackwell, London Eng.			2·27
" 13	" ..	48198	" ..	3 "	75	" .			0·84
" 13	" ..	48499	" ..	3 "	75	" ..			3·96
" 13	" ..	49616	Wilson Grocery Co., Kamloops, B.C.	3 "	90	Empress Mfg. Co., Vancouver.			3·50
" 13	" ..	49617	" ..	3 "	90	" ..			5·00

SESSIONAL PAPER No. 14

FRUIT JAMS.

Results of Analysis.

per cent. Soluble.	per cent. Total.	Water.	Polarization (normal solution). Direct.	Polarization (normal solution). Invert.	Polarization (normal solution). Difference.	Residual cane sugar.	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. W. FLETCHER, INSPECTOR.												
p. c.	p. c.	p. c.				p. c.	p. c.					
63·90	68·90	31·10	7·3	-20·9	28·2	21·26	42·64	None	None.	Black currant tissues.	44141	Genuine.
65·50	70·94	29·06	+ 9·3	21·7	31·0	23·37	42·13	"	"	Raspberry tissues.	44142	"
67·20	72·52	27·48	+ 7·1	-21·7	28·8	21·70	45·50	"	"	"	44143	"
63·50	68·30	31·70	5·4	19·5	14·1	10·63	52·87	"	"	Plum tissues and stones.	44144	"
69·30	73·21	26·76	+24·3	11·6	35·9	27·06	42·24	"	"	Strawberry tissues.	44145	Contains glucose.
69·50	71·97	29·03	+29·6	-23·1	53·0	39·95	29·55	"	Present.	Black currant tissues.	44146	Dyed. Otherwise genuine.
60·87	64·77	35·23	+ 9·7	22·3	32·0	21·12	36·75	"	None	"	44147	Genuine.
68·90	70·13	29·87	+21·4	22·6	44·0	33·17	35·73	"	"	Strawberry tissues.	44148	Genuine. Fruit juice acknowledged.
67·20	70·00	30·00	-30·0	22·8	52·8	39·80	27·40	"	"	"	44149	Genuine.
61·62	66·97	33·03	11·1	19·5	8·4	6·33	55·29	"	"	Gooseberry tissues.	44150	"
THOS. PARKER, INSPECTOR												
66·62	69·34	30·66	+37·5	-25·1	60·6	45·68	20·94	None.	Present.	Raspberry tissues.	48196	Dyed. Otherwise genuine.
69·00	71·27	28·73	-27·9	23·1	51·0	38·45	30·55	"	None	Strawberry tissues.	48497	Genuine.
66·75	67·59	32·41	- 6·3	-20·0	13·7	10·33	56·42	"	"	Plum tissues.	48498	"
59·50	63·46	36·54	6·6	-19·3	12·7	9·57	49·93	"	"	Raspberry tissues.	48499	"
65·70	69·20	30·80	+28·9	-21·9	50·8	38·30	27·40	"	"	Strawberry tissues.	49616	"
66·62	71·62	28·38	+15·7	-22·6	38·3	28·87	37·75	"	"	Raspberry tissues.	49617	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Solids
				Quantity.	Cents.	Manufacturer.	Furnisher.		Insoluble.
DISTRICT OF NELSON—									
1912.									p. c.
Feb. 13	Fruit Jam..	49618	Wilson Grocery Co., Kamloops, B.C.	3 bots.	90	Empress Mfg. Co., Vancouver.	....	....	1·35
" 13	" ..	49619	" ..	3 "	75	Chivers & Sons, Histon, Eng.	....	....	5·30
" 13	" ..	49620	" ..	3 "	75	"	....	....	6·52
" 13	" ..	49621	" ..	3 "	75	"	....	....	7·69
DISTRICT OF VANCOUVER—									
Feb. 14	Fruit Jam..	38295	B. T. Malcolm, Chilliwack, B.C.	3 jars.	75	Norfolk Preserving Co., Norfolk, Ont	....	Guaranteed Pure Plum Jam.	6·53
" 14	" ..	38296	Ashwell Dept. Store, Chilliwack, B.C.	3 "	75	Empress Mfg. Co., Vancouver.	....	Red Currant..	2·30
" 14	" .	38297	Lillie's Cash Grocery, Chilliwack, B.C.	3 "	75	E. D. Smith, Winona, Ont	....	Raspberry...	4·26
" 14	" ..	38298	Jas. Plumridge Mission Jct., B.C.	3 "	75	Kootenay Jam Co., Mission City, B.C.	....	Guaranteed Pure Fruit & Sugar only.	3·11
" 19	" .	38299	Ayling & Swain New Westminster, B.C	3 "	75	Empress Mfg Co., Vancouver.	....	Strawberry...	3·04
" 20	" ..	38300	W. H. Walsh Co., Ltd., Eburne, B.C	3 "	75	Kootenay Jam Co., Nelson, B.C.	....	Gurante'd pure fruit & sugar only.	5·47
" 20	" ..	38301	G.D. Richards Eburne, B.C	3 "	1.05	Duerr's, London, Eng.	....	Raspberries & cane sugar warranted strictly pure.	2·16
" 21	" ..	38302	A. & C. Grocery Vancouver, B.C.	3 "	60	Chivers & Sons, Ltd., Cambridge, Eng.	....	Improved with a small portion of fruit jelly.	3·64
" 21	" .	38303	Dominion Grocery, Vancouver, B.C.	3 "	75	Crosse & Blackwell, London Eng.	....	Prepared from selected fruits	2·60
" 21	" ..	38304	David Spencer, Ltd., Vancouver, B.C.	3 "	75	L. Noel & Sons, London, Eng	....	Made from fresh fruit & pure refined sugar.	3·23

FRUIT JAMS.

Results of Analysis.

per cent.			Polarization (normal solution).										Remarks and Opinion of the Chief Analyst
Soluble.	Total.	Water.	Direct.	Invert.	Difference.	Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.	No. of Sample.	
Concluded.													
p. c.	p. c.	p. c.				p. c.	p. c.					
68·90	70·25	29·75	+20·3	−22·6	42·3	31·90	37·00	None	None	Gooseberry tissues.	49618	Genuine.
61·90	67·20	32·80	+29·3	−19·2	48·5	36·56	25·31	"	"	Plum tissues and stones.	49619	"
65·70	72·22	27·78	+ 4·3	−19·7	24·0	18·10	17·60	"	"	"	49620	"
62·62	70·22	29·78	+ 7·1	−17·9	25·3	19·07	13·55	"	"	"	49621	"

J. F. POWER, INSPECTOR.

59·40	65·93	31·07	+13·3	0·9	14·2	10·70	48·70	Benzoic acid.	None	Plum tissues.	38295	Preservative. Glucose present.
66·50	68·80	31·20	−12·6	−22·2	31·8	26·23	10·27	None.	"	Currant tissues.	38296	Genuine.
63·25	67·51	32·49	+ 6·4	−22·3	28·7	21·63	41·62	"	"	Raspberry tissues.	38297	"
65·60	68·71	31·29	+30·0	+ 2·4	27·6	20·78	44·82	"	"	Currant tissues.	38298	Contains glucose.
67·20	70·24	29·76	+28·6	−23·1	51·7	38·97	28·23	"	"	Strawberry tissues.	38299	Genuine
63·50	68·97	31·03	36·0	0·5	36·5	27·50	36·00	"	"	Raspberry tissues.	38300	Contains glucose.
70·25	72·41	27·59	+ 4·3	−23·1	27·4	20·65	49·60	"	"	"	38301	Genuine.
65·37	68·41	31·59	+ 3·7	−21·7	25·4	19·5	46·22	"	"	"	38302	Genuine. Fruit jelly acknowledged.
70·90	73·50	26·50	+24·5	−22·8	47·3	35·66	35·24	"	"	Plum tissues.	38303	Genuine.
66·50	69·73	30·27	+18·9	− 5·1	24·0	18·10	48·40	"	"	Plum tissues & a few stones.	38304	Contains glucose.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion).	Solids Insoluble.
									p. c.
DISTRICT OF VICTORIA—									
1912.									
Feb. 27	Fruit Jam..	49101	Windsor Grocery Co., Victoria, B.C.	3 pkgs	90	L. Noel & Sons, London, Eng		Pure Raspberry.	5·17
" 27	" ..	49102	" ..	3 "	90	Empress Mfg. Co., Ltd., Victoria, B.C		Strawberry "Empress Brand."	3·00
" 28	" ..	49103	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	90	Kootenay Jam Co., Ltd., Nelson, B.C.		Strawberry "Kootenay Brand."	2·45
" 28	" ..	49104	" ..	3 "	60	Simcoe Canning Co., Simcoe, Ont.		Strawberry..	4·84
" 29	" ..	49104 A	D. H. Ross & Co., Victoria, B.C.	3 "	75	E. D. Smith, Winona, Ont		E. D. S. Raspberry.	4·64
" 29	" ..	49105	" ..	3 "	75	Crosse & Blackwell, London Eng.		C. & B. Black Currant.	4·00
Mar. 1	Fruit Jam..	49106	Copas & Young Victoria, B.C	3 "	60	Chivers & Sons, Ltd., London, Eng.		Chiver's Green Gooseberry.	3·70
" 6	" ..	49107	Wm. B. Hall, Victoria, B.C	3 "	75	Robertson's, London, Eng		Robertson's Raspberry.	3·14
" 6	" ..	49108	Harrison & McDonald, Victoria, B.C.	3 "	75	Jas. Robertson & Sons, Paisley.		Golden Shred Strawberry.	2·83
" 6	" ..	49109	Acton Bros., Victoria, B.C	3 "	90	Kootenay Jam Co., Nelson, B.C.		"Kootenay" Brand Golden Plum.	4·70

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FRUIT JAMS.

Results of Analysis.

per cent.			Polarization (normal solution).								No. of Sample.	Remarks and Opinion of the Chief Analyst.
Soluble.	Total.	Water.	Direct.	Invert.	Difference.	Residual cane sugar	Soluble matter other than cane sugar.	Preservatives.	Dyes.	Microscopical examination.		
D. O'SULLIVAN, INSPECTOR.												
p. c.	p. c.	p. c.				p. c.	p. c.					
64·25	69·12	30·58	− 2·6	45·8	13·2	9·95	54·30	None	None	Raspberry tissues.	49101	Trace of glucose.
67·87	70·87	29·13	+38·0	−22·8	60·8	45·83	22·04	"	"	Strawberry tissues.	49102	Genuine.
53·80	66·25	33·75	+19·3	2·7	22·0	16·58	47·22	"	"	"	49103	Contains glucose.
67·25	72·09	27·91	+20·0	−22·3	42·3	31·16	36·09	Salicylic acid trace	"	"	49104 A	Trace preservative. Otherwise genuine.
60·37	65·61	34·99	+15·0	19·7	34·7	26·16	34·21	None.	"	Raspberry tissues.	49104	Genuine.
71·90	75·90	24·10	+11·6	−23·4	35·0	26·40	45·50	"	"	Black currant tissues.	49105	"
63·37	67·07	32·93	−11·7	20·4	8·7	6·56	56·81	"	"	Gooseberry tissues.	49106	"
67·12	70·26	29·74	+18·8	−22·2	41·0	30·90	36·22	Salicylic acid trace		Raspberry tissues.	49107	Trace preservative. Otherwise genuine.
65·60	68·43	31·57	+32·2	−21·5	53·7	40·48	25·12	"	slightly dyed.	Strawberry tissues.	49108	Trace preservative and dye. Otherwise genuine.
61·10	68·80	31·20	+31·7	+ 8·4	23·3	17·56	46·54	None.	None.	Plum tissues and stones.	49109	Contains glucose.

APPENDIX I.

BULLETIN No. 245—VANILLA FLAVOURING EXTRACT.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister Inland Revenue.

SIR,—I beg to hand you herewith a report covering eighty samples of Vanilla Flavouring Extract purchased throughout Canada in April and May of this year.

Standards for flavouring extracts have been published as Circular G. 1045, and came into effect November 25, 1912. These are as follows:—

1. A flavouring extract intended for the purpose of flavouring food, is a solution of correct strength, as hereinafter defined, of sapid and odorous principles derived from an aromatic plant or parts of a plant, with or without its natural colouring matters; and conforms in name to the plant used in its preparation.

2. The usual solvents employed in the preparation of flavouring extracts are ethyl alcohol, water and glycerine. In the event of any other solvents than ethyl alcohol, water and glycerine being used, such solvents shall be harmless to health, and their names shall be plainly stated on the label.

3. Solutions of natural or synthetic preparations such as vanillin, coumarin, benzaldehyde, methyl salicylate or other sapid and odorous compounds, more or less resembling substances found in plants, or absolutely identical with these, if harmless to health, may be sold for flavouring purposes, if properly labelled, so as to make it quite clear that they are not extracts as above defined; and preferably by the use of the word artificial or imitation.

4. If an extract be fortified or strengthened by having such natural or synthetic preparations as are referred to in the immediately preceding section added to it, the fact of such addition shall be clearly stated on the label, or the word Compound or Mixture shall be used to describe it.

5. Lemon extract is the flavouring extract prepared from lemon peel, or from oil of lemon, and contains along with more or less of the terpenes of lemon oil not less than two-tenths (0·2) of one per cent of citral derived from oil of lemon.

6. Terpene lemon extract is the flavouring extract prepared as above described, and contains not less than five (5) per cent of oil of lemon, and not less than two-tenths (0·2) of one per cent of citral derived from oil of lemon.

7. Vanilla extract is the flavouring extract prepared from vanilla bean with or without sugar or glycerine and contains in 100 cubic centimetres the soluble matters from not less than five (5) grams of the vanilla bean (the dried cured fruit of Vanilla planfolia.)

Vanilla extract has been the subject of extended work by these laboratories on three (3) occasions, and the conclusions reached are stated in Bulletin No. 201 as follows:—

1. Extracts containing coumarin should be required to announce the fact either by explicit statement, or by being sold as compound or mixtures.

2. The use of alcohol is necessary in preparing an extract of vanilla, not so much to dissolve the vanillin, which is rendered more soluble by the presence of sugar, as in order to get the characteristic resins into solution. For this reason an extract cannot

meet the requirements of a true vanilla bean extract unless it contains from 30 to 40 per cent of alcohol.

3. Samples containing notably more than 0·2 per cent of vanillin are presumably made not from the vanilla bean, but at least in part, from synthetic vanillin.

4. The standards above referred to will be defined with greater exactitude when our experience has furnished us with additional data such as to enable us to fix numerical limits for resins, vanillin, and other essential constituents. In the meantime it must suffice to classify on the basis of already acquired knowledge. In this regard, it must be concluded that an extract made with alcohol decidedly less than 30 per cent strength (volume) is deficient in the resinous matters of vanilla bean.

Where vanillin is decidedly above 0·200 per cent, the extract is to be regarded as artificial, as containing synthetic vanillin.

Where coumarin is present, as well as vanillin, the extract should be sold as a mixture or compound.

The following synopsis in which classifications is based upon the above considerations is interesting:—

Year.	[illegible]	Total samples.	Genuine.	Mixture.	Artificial.	Percentage genuine.
1903	[illegible]	21	0	20	1	0
1909	23[illegible]	77	7	37	33	9
1912	[illegible]	80	13	40	27	16

Of those classified as genuine, 2 samples of the collection of 1912 contained decidedly less than 30 per cent alcohol, and these should probably be designated as *doubtful* rather than as genuine.

It is satisfactory to note that the percentage of genuine samples found on the Canadian market is decidedly on the increase; and it is hoped that, on our next inspection, we shall find still more notable increase. Perhaps the most important advantage to be looked for, as a result of having legal standards for the article, is the correct labelling of vanilla extract. After this date, it will be possible to declare adulteration in the case of extracts which are offered under the name of Vanilla Extract, which being in reality prepared from synthetic vanillin, in whole or in part, or containing coumarin. Such extracts are not forbidden, and for many purposes they may be regarded as satisfactory; but it will be necessary that they should be correctly labelled, and thus be offered for what they really are.

I beg to recommend the publication of this report as Bulletin No. 245.

I have the honour to be, Sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer	Furnisher.		Vanillin per 100cc.	Coumarin per 100cc.	Alcohol by Volume.		
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.													
1912.													
April 26	Vanilla Extract.	47061	Morrisson & Williams, Halifax, N.S.	3 oz.	18	Imperial Extract Co., Toronto.	Manufacturers.	Shirriffs True Vanilla.	0·152	0·027	37·00	47061	Contains coumarin. Mixture.
" 26	"	47062	Dixon's, Ltd., Halifax, N.S.	3 "	30	"	Bauld Bros., Ltd.		0·121	0·046	22·10	47062	" "
" 26	"	47063	Share & Campbell, Halifax, N.S.	3 "	30	Gorman Eckert Co., London, Ont.	Manufacturers.		0·113	0·050	21·35	47063	" "
May 18	"	47111	Nat. Drug & Chem. Co., Halifax, N.S.	3 "	22	Vendors		"Sovereign" brand	0·282	0·051	Sample too small.	47111	Vanillin high. Artificial.
" 22	"	47112	R. B. Secton & Co., Halifax, N.S.	3 "	23	F. F. Dalley Co., Hamilton, Ont.	Manufacturers.		0·104	None.	30·85	47112	No coumarin. Genuine.
DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.													
May 21	Vanilla Extract.	46191	Stewart & Son, Charlottetown.	7½ oz.	75	The Imperial Extract Co., Toronto.			0·221	0·065	34·96	46191	Vanillin high. Contains coumarin. Artificial.
" 21	"	46192	Beer & Goff, Charlottetown.	7½ "	75	Pure Gold Mfg. Co., Toronto.			0·082	None.	33·90	46192	No coumarin. Genuine.
" 21	"	46193	R. T. Maddigan & Co., Charlottetown.	3 "	30	The Nat. Drug & Chem. Co., Ltd., Halifax.			0·055	0·265	32·00	46193	Chiefly coumarin. Mixture.
" 21	"	46194	John McKenna, Charlottetown.	6 "	30	White Swan Spices & Cereals, Ltd., Toronto.			0·499	0·025	17·58	46194	Vanillin very high; contains coumarin. Artificial.
" 21	"	46195	I. P. Duffy, Charlottetown.	6 "	30	White Swan Mills, Toronto.			1·020	0·170	15·70	46195	" "

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR

April 15	Vanilla Extract.	45645	The Nat. Drug & Chem. Co., St. John, N.B.	3 bots.	30	Vendors	"Star" brand	0·086	0·023	Sample too small	45645	Contains coumarin. Mixture.
" 15	"	45646	Dearborn & Co., St. John, N.B.	3	30		Dearborns	0·217	None	32·75	45646	No coumarin. Vanillin high Genuine.
" 16	"	45647	Geo. E. Barbour Co., Ltd., St. John, N.B.	3 "	30		Acorn	0 491	0·051	25 80	45647	Vanillin very high; contains coumarin. Artificial.
May 3	"	45648	The Baird Co., Ltd. Woodstock, N.B.	3 "	30			0 095	None	Sample too small	45648	No coumarin. Genuine.
" 9	"	45649	The Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	60			0 125	None.	61·10	45649	" "

DISTRICT OF QUEBEC F. X. W. E. BELAND, INSPECTOR.

April 21	Vanilla Extract.	37423	W. E. Hayfield, 60 rue Ste. Marguerite, Québec.	3 bots.	60	Henri Jones Co., Montreal.	W. Brunet & Cie	0·204	None	29·30	37423	No coumarin. Vanillin high. Genuine.
" 21	"	37424	Philippe Boulet, 3 rue Grant et Des fosses.	3 "	30	Croix Rouge, Quebec.	Manufacturer	0 391	0 101	13·10	37424	Vanillin very high. Artificial.
" 24	"	37425	Charles Boily, 1913 rue St. Valier.	3 "	30	Unknown	Barbeau & Gobout.	0 230	0·082	9 12	37425	Vanillin high. Artificial.
" 24	"	37426	L. P. Martel, 613 rue du Pont.	3 "	45	Lemister, Toronto	Manufacturer	0·086	0 063	24·62	37426	Contains coumarin. Mixture.
" 24	"	37427	" "	3 "	30	"	"	0 052	0 105	9·05	37427	" "

DISTRICT OF ST. HYACINTHE - J. C. ROULEAU, INSPECTOR.

April 15	Vanilla Extract.	38981	P. Larochelle, Farnham.	3 bots.	51	Henri Jonas & Cie., Montreal.		0·273	none	32·75	38981	No coumarin; vanillin high. Contains synthetic vanillin. Artificial
" 17	"	38982	Monty Freres, Granby.	3 "	60	The F. F. Dalley Co., Ltd., Hamilton.		0·121	0 046	29 30	38982	Contains coumarin. Mixture.
" 29	"	38983	H. J. Elliott, South Durham, P.Q.	3 "	75	White Swan Spices & Cereals, Ltd., Toronto.		0·508	0 065	35·05	38983	Vanillin very high. Artificial.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Vanillin per 100cc.	Coumarin per 100cc.	Alcohol by Volume.		

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR—*Concluded.*

1912.													
May 2	Vanilla Extract.	38984	J. A. Foucault, St. Leonard Jct.	3 bots.	30	Henri Jonas & Cie., Montreal.			0·265	none.	31·20	38981	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial
" 6	"	38985	L. Gendreau, St. Hyacinthe.	3 "	30	J. V. Boudrias. Montreal.			0·304	0·069	12·90	38985	Vanillin high. Artificial.

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

April 15	Vanilla Extract.	39990	J. A. Turgeon, 42 Victoria st., Montreal.	3 bots.	30			"Gold" Star.	0·056	none.	15·00	39990	No coumarin. Genuine: but alcohol too low.
" 15	"	39991	L. A. Panze, 140 Villeneuve st., W., Montreal.	3 "	45	Henri Jonas & Co., Montreal.			0·273	"	33·05	39991	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.
" 15	"	39992	Annex Provision Co., 120 Clark st., Montreal.	3 "	30			Thistle (our own).	0·043	0·090	13·60	39992	Contains coumarin. Mixture.
" 15	"	39993	"	3 "	75			Shirriffs	0·243	0·055	38·78	39993	Vanillin high. Contains coumarin. Artificial.
" 15	"	39994	D. Ashkanase, 21 Maria Anne st. E., Montreal.	3 "	30			Princess.	0·078	0·078	13·95	39994	Contains coumarin. Mixture.

DISTRICT OF OTTAWA J. A. RICKEY, INSPECTOR.

April	23	Vanilla Extract.	51601	F. A. Scott & Son, Wellington st., Ottawa.	3 bots.	75	Shirriffs, Toronto.	H. N. Bate & Sons, Ottawa.	Labelled Shirriffs Imperial Quintessence true vanilla		0·217	0·016	38·78	51601	Vanillin high. Contains coumarin. Mixture.
"	23	"	51602	R. Clark Cummings, Cummings' Bridge.	3 "	30	Integrity Mills, Toronto.	Lister Pure Food Co., Toronto.			0·035	0·106	8·98	51602	Contains coumarin. Mixture.
"	23	"	51603	G. J. Young, Ottawa.	3 "	75	L. Crossman, Ottawa.	Manufacturer			0·419	0·060	9·99	51603	Vanillin very high. Artificial.
"	25	"	51604	W. F. Garland, Ottawa.	3 "	45	Nat. Drug & Chem. Co., Ottawa.	"			0·391	0·147	12·55	51604	Vanillin very high. Artificial.
"	25	"	51605	Hull Medical Hall, Hull, P.Q.	3 "	30	Unknown	Farley, Hull.			1·588	0·202	22·10	51605	Vanillin very high. Artificial.

DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.

April	15	Vanilla Extract.	49560	Albert Powers, Picton.	3 bots.	25	I. E. Co., Toronto.				0·100	0·028	14·65	49560	Contains coumarin. Mixture.
"	16	"	49561	Hooey & Son, Cobourg.	3 "	25	"				0·139	0·055	20·25	49561	Contains coumarin. Mixture.
"	16	"	49562	John Curtis, Port Hope.	3 "	60	Pure Gold Co., Toronto.				0·074	none	28·90	49562	No coumarin. Genuine.
"	17	"	49563	J. R. Bell, Peterboro.	3 "	30	Vendor				0·152	0·069	20·91	49563	Contains coumarin. Mixture.
"	17	"	49564	Dutton Co., Peterboro.	3 "	30	Fodhunter & Mitchell, Toronto.				0·191	0·061	10·20	49564	Contains coumarin Mixture.

DISRTICT OF TORONTO H. J. DAGER, INSPECTOR.

April	18	Vanilla Extract.	49387	The Elms Cash grocery, 974 Queen St., W., Toronto.	3 bots.	23		Imperial Extract Co., Toronto.	Maple Leaf		0·018	0·124	12·96	49387	Contains coumarin. Mixture.
"	18	"	49389	W. G. Wade, 985 Queen St., East, Toronto.	3 "	30		J.M. Lowes Co., Ltd., Toronto.	Our own manufacturing for vendors.		0·234	0·161	16·38	49389	Vanillin high. Artificial.
"	18	"	49390	Robert Ross, 743 Queen St. East, Toronto.	3 "	30		Unknown	Integrity World Brand. Double strength.		0·039	0·106	8·10	49390	Contains coumarin. Mixture.
May	1	"	49391	Carral's Cash grocery, 146 James St. N., Hamilton	3 "	15		F.F. Dalley Co., Hamilton.	Lone Star.		0·095	0·191	15·84	49391	" "
"	1	"	49399	E.R. Horning, 140 John St. North, Hamilton.	3 "	21			Topical Flav. Ext		0·126	0·087	15·66	49399	" "

BULLETIN No. 245—VANILLA EXTRACT.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)	Results of Analysis. Vanillin per 100cc.	Coumarin per 100cc.	Alcohol by Volume.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
DISTRICT OF LONDON—JNO. TALBOT, ACTING INSPECTOR.													
1912.													
May 7	Vanilla Extract.	48257	W. R. Butcher, St. Mary's.	3 bots.	30	Hamilton Coffee & Spice Co., Hamilton.	.....	....	0·048	0·055	19·15	48257	Contains coumarin. Mixture.
" 7	" ..	48259	F. W. Hutton, St. Mary's.	3 "	30	F. F. Dalley & Co., Hamilton.	.....	.. ..	0 104	None.	27·90	48259	No coumarin. Genuine.
" 8	" ..	48265	Stuebing & Son, Berlin.	3 "	30	Gorman Eckert Co., London.	....	Golden Gem. Pure Extract.	0·046	0·046	21·82	48265	Contains coumarin. Mixture.
" 8	"	48267	Schell Bros., Berlin.	3 "	75	Henri Jonas, Montreal.	....	Royal Quintessence. Pure Vanilla	0·273	None.	32·10	48267	No coumarin. Vanillin high. Contains syethetic vanillin. Artificial.
" 8	" ..	48269	Dunke & Co, Berlin.	3 "	30	Hamilton Chemical Works, Hamilton.	....	Prime Extract. ...	0·143	0·041	27·90	48269	Contains coumarin. Mixture.
DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.													
May 2	Vanilla Extract.	48237	F. McDougall, Ingersoll.	3 bots.	30	I. E. Co., Toronto.	.....	....	0·108	0·060	15·00	48237	Contains coumarin. Mixture.
" 2	" ..	48240	C. A. O'Neil, estate, Ingersoll.	3 "	30	Gorman Eckert Co., London, O.	....	Oriental flav. Ext.	0·108	0·055	20·42	48240	" "
" 3	" .	48246	Poole & Co., Woodstock, O.	3 "	75	Shirriffs, Montreal	... .	Shirriff's Imperial.	0·230	0·032	38·16	48246	Vanillin high. Artificial.
" 3	" .	48247	Fred Millman, Woodstock. O.	3 "	30	Gorman Eckert Co., London, O.	.....	Rose brand.	0·056	0·069	22·70	48247	Contains coumarin. Mixture.
" 3	" ..	48248	Jos. Parker, Woodstock, O.	3 "	30	Canada Spices grocery Co., London, Ont.	.....	Victoria Brand ...	0 069	0·087	20·76	48248	" "

DISTRICT OF MANITOBA—A. C. LARIVIERE—INSPECTOR.

April	16	Vanilla Extract.	48636	St. James Cash grocery, St. James.	3 bots	75	The Dyson Co., Winnipeg.	Manufacturers	Red Cross	1·020	0·064	32·66	48636	Vanillin very high. Artificial.
"	16	"	48637	Duncan & Hunter, St. James.	3 "	45	" "	"	Royal	0·968	0·101	28·54	48637	" "
"	17	"	48638	W. A. Bartram, Portage Ave., Winnipeg.	3 "	25	North Star M'f'g. Co., Winnipeg.	Unknown	Sterling	0·260	0·055	19·15	48638	Vanillin high. Artificial.
"	17	"	48639	J. Paterson, Portage Ave., Winn.	3 "	25	Vendor	"	Jewel, put up for vendor.	0·061	0·060	20·06	48639	Contains coumarin. Mixture.
"	18	"	48640	R. McCullouch, Portage Ave., Winnipeg.	3 "	30	Unknown	"		0·022	0·133	19 40	48640	" "

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

April	7	Vanilla Extract.	44155	Campbell, Wilson & Horne, Lethbridge.	3 bots.	60	Campbell Bros. & Wilson, Winnipeg.			0·052	0·101	21 64	44155	Contains coumarin. Mixture.
"	7	"	44156	"	3 "	50	Gorman & Eckert Co., London, Ont			0·291	0·060	24 65	44156	Vanillin high artificial.
"	7	"	44157	H. A. McKillop Co., Lethbridge	3 "	75	Gold Standard Mfg. Co., Winnipeg.			0·195	None.	33·60	44157	No coumarin. Genuine.
"	7	"	44158	A. MacDonald Co., Lethbridge.	3 "	75	White Star Mfg. Co., Winnipeg.			0·069	0·110	29·68	44158	Contains coumarin. Mixture.
"	7	"	44159	Hudson Bay Co., Lethbridge.	3 "	60			Put up for Hudson Bay Co.	0·282	None.	30·85	44159	No coumarin. Vanillin high. Contains synthetic vanillin. Artificial.

DISTRICT OF NELSON THOS. PARKER, INSPECTOR.

April	18	Vanilla Extract.	49644	W. H. Smith, Vernon, B.C.	3 bots.	60	Kelly, Douglas & Co., Vancouver.			0·308	0·101	18 90	49644	Vanillin high. Artificial.
"	18	"	49645	"	3 "	60	W. H. Malkin, Vancouver.			0·213	0·057	37 95	49645	Vanillin high. Mixture.
"	18	"	49646	"	3 "	60	Pure Gold Mfg. Co., Toronto.			0 078	None.	38 78	49646	No coumarin. Genuine.
"	18	"	49650	W. R. Megaw, Vernon, B.C.	3 "	60	Empress Mfg. Co., Vancouver.			0·139	0 088	25 36	49650	Contains coumarin. Mixture.
"	18	"	49651	"	3 "	75	Climax Ext. Co., Vancouver.			0 123	0·083	23 04	49651	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of Opinion.	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quality.	Cents.	Manufacturer.	Furnisher.		Vanillin per 100cc.	Coumarin per 1000cc.	Alcohol by Volume.		
DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.													
1912.													
May 1	Vanilla	38321	H. A. Edgett, Vancouver.	3 bots.	75	Gorman, Eckert & Co., Winnipeg.	.....	Gorman's Pure Flavour Extract.	0·065	0·096	21·82	38321	Contains coumarin. Mixture.
" 1	"	38322	Woodward Dept. Stores. Vancouver.	3 "	75	Royal Extract Co., Vancouver.	.....	Vanilla Extract...	0·065	0·046	17·10	38322	" "
" 1	"	38323	McTaggart's Grocery, Vancouver.	3 "	75	Empress Mfg. Co., Vancouver.	.....	" ...	0·091	0·037	27·04	38323	" "
" 1	"	38324	McDowell's Grocery, Vancouver.	3 "	195	White Star Mfg. Co., Ltd., Winnipeg.	.....	Pure Fruit Flavour	0 091	0·110	35·60	38324	" "
" 1	"	38325	Armour MacFarlane, Vancouver.	3 "	120	Pure Gold Mfg. Co., Toronto.	.....	Vanilla Flav. Ext.	0 065	None.	33·60	38325	No coumarin. Genuine.
DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.													
Aprll 23	Vanilla Extract.	49135	Windsor Grocery Co., Victoria.	3 bots.	75	Sheriff's Mfg. Co., Toronto.	.....	Shirriff's Imported quint essence true Vanilla.	0·204	0·046	39·60	49135	Vanillin high, containing coumarin mixture.
" 24	" ..	49136	The West End Grocery Co., Ltd., Victoria.	3 "	75	Pure Gold Mfg. Co., Toronto.	.....	Pure Gold Vanilla Extract.	0·061	None.	33·90	49136	No coumarin. Genuine.
" 24	" .	49137	Harrison & McDonald, Victoria	3 "	75	Empress Mfg. Co., Vancouver.	.....	"Empress Brand"	0·148	0 068	29·12	49137	Contains coumarin. Mixture.
" 25	" ..	49138	Dixi H. Ross & Co., Victoria.	3 "	75	Imperial Ext. Co., Toronto.	.....	"Dixi" Brand ...	0 321	0·074	17·76	49138	Vanillin high. Artificial.
" 25	" ..	49139	E. G. Bailey, Victoria.	3 "	60	W. A. Jameson Coffee Co., Victoria.	.....	Victoria Brand Vanilla Flavour.	0·490	0·138	34 34	49139	Vanillin very high. Artificial.

APPENDIX J.

BULLETIN No. 246—CANNED TOMATOES.

Ottawa, December 30, 1912.

Wm. Himsworth, Esq.,
Acting Deputy Minister,
Inland Revenue.

Sir,—I have the honour to report to you regarding 140 samples of canned tomatoes purchased throughout the Dominion of Canada in September and October of this year.

With a single exception, in which slight decomposition was found, the contents of the cans were in good condition.

The cans in which tomatoes are packed appear, so far as this inspection goes, to vary in capacity, and to fall into three groups, in the matter of size.

1. *Large Size.*—About 1,050 cubic centimetres or approximately 37 ounces. Of this size 111 samples are found in the present collection.

2. *Medium Size.*—About 875 cubic centimetres, or approximately 31 ounces. Of this size 24 samples were found.

3. *Small Size.*—About 650 cubic centimetres, or approximately 23 ounces. Of this size 5 samples were found.

Large Size.

16	samples	vary	from	1000	to	1025	cc. 36 oz.
63	"	"		1025	"	1050	" 37 "
27	"	"		1050	"	1075	" 38 "
5	"	"		1075	"	1100	" 39 "
111							

The total contents of cans of these sizes vary from 29 to 25.9 ounces; 14 samples being below 32 ounces and 19 samples being above 34 ounces. Thus 78 samples or 70% of the whole contain from 33 to 34 ounces.

The total solids of these contents vary from 11.2 to 24.3 ounces; or in greater detail, as below:—

11	to 12	ounces	in 3	samples.
13	" 14	"	7	"
15	" 16	"	21	"
17	" 18	"	21	"
19	" 20	"	32	"
Above 20		"	27	"

Thus 111 samples of canned tomatoes, packed in what we may call large sized tins, give the following averages:—

Average capacity of the can	37	ounces.
" total contents	34	"
" Solid "	18	"
" Water "	16	"

The capacity of the largest sized tin in which these vegetables are packed is fairly constant, the variation being about 1 oz. in either direction.

The total content of the can averages about 3 ounces less than the capacity of the can. This space being either vacuous or containing air.

The solid matter of these contants is of course, the true measure of the value of the artiele, equal quality being assumed. While the average amount of solids is 18 ounces this varies between very wide limits, viz., from 11.2 oz. to 24.3 oz; which means that some samples have fully twice the value of others. There is no doubt that some regulation is necessary here.

I think it would be reasonable to require a minimum of 20 oz. solids in cans of the size now being considered.

It may be well to say that the solids above referred to are not the dry solid matter of the tomato, but, the moist solids retained on cheese cloth. The weighed total content of the can is poured upon cheese cloth and allowed to drain as long as drops fall at intervals not longer than 5 seconds. The water which passes through is then weighed, and this weight subtracted from the weight of total contents. The remainder in the weight of the solid matter.

Medium Size.

6 samples vary from 855 cc. to 875 cc. or 31 ounces.
17 samples vary from 875 cc. to 900 ce. or 32 ounces.
1 sample is of 980 cc. or 36 ounces.

The last sample referred to may perhaps belong to the preceding group.

With three exceptions, the cans of this size were procured in British Columbia, and it may be that packers ship the smaller tins to distant points to reduce cost of freight. The solid matter in these samples varies in amount from 12.5 oz. to 20.8 oz, and averages 16.3 ounces. More in detail, as follows:—

Below 13 ounces	2	samples.
" 14 "	2	"
" 15 "	3	"
" 16 "	2	"
" 17 "	8	"
" 18 "	2	"
Above 18 "	5	
	24	"

Small Size.

Five samples are contained in tins of about 650 ec. size (23 ozs.). The solids range from 9.5 to 14.4 ounces and average 11.7 ozs. The ratio of solid content to size of can (11.7: 23) is 0.5 being practically identical with that for the other sizes. It thus appears that the size of the package is a guide to the actual amount of tomato pulp contained therein, on a basis of average results as found in this inspection.

If I am justified in holding that 20 ounces of solids is a reasonable content for a 37 ounce tin, then a medium sized tin of 32 ounces should contain 17 ounces of solids, and a small tin of 23 ounces should contain 12.5 ounces.

On this basis 52 samples of the large size, or 47 per cent of the whole, contains less than normal quantity, and a considerable number of these are very far below the standard suggested. Of the medium size tins, 17 samples or 70% of the whole contains less than the standard requires.

Of the small size 3 samples or 60% of the number contain less than the standard requires.

The State of Ohio requires that standard tomatoes, should be packed to have a gross weight of 36 ounces of fruit, exclusive of juice. For a higher grade, the gross weight must be 38 ounces, with not less than 20 ounces of fruit.

In view of the great disparity of values shown in this widely used article of food, I am of the opinion that a standard should be legalized under the provisions of 6-7 Edward VII, Chapter 27, "THE MEAT AND CANNED FOODS ACT" and the amendment thereto, which Act is administered by the Department of Agriculture, and I hope that the results here placed on record will be found of service to the Department of Agriculture should it decide on establishing such a standard.

I beg to recommend the publication of this report as Bulletin No. 246.

I have the honour to be, Sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 246—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF NOVA SCOTIA—		
1912.								
Sept. 18	Canned tomatoes	47105	A. & W. Smith & Co., Halifax, N.S.	3 cans	43	Simcoe Canning Co., Simcoe, Ont.	Manufacturers	
" 18	"	47106	Wentzells Ltd., Halifax, N.S.	3 "	45	Ontario Canners Ltd., Sarnia, Ont.	"	
" 19	"	47107	Chisholm & Co. Halifax, N.S.	3 "	35	E. D. Smith, Winona, Ont.	Manufacturer	Sold as 1910 pack.
" 19	"	47108	R. B. Adams & Co., Halifax, N.S.	3 "	50	Simcoe Canning Co., Simcoe, Ont.	Bauld Bros., Halifax, N.S.	
" 20	"	47109	John Tobin & Co., Halifax, N.S.	3 "	40	Roberts Bros., Baltimore, U.S.A.	Manufacturers	
" 24	"	47110	Cain Bros., Yarmouth, N.S.	3 "	48	F. R. Laylor C. Co., Dunnville, Ont.	E. Allen, Yarmouth, N.S.	
" 24	"	47113	Wm. Law & Co., Yarmouth, N.S.	3 "	45	Suddersville C. Co., Suddersville, U.S.A.	Manufacturers	
" 25	"	47114	Wentworth Stores, Windsor, N.S.	3 "	45	A. C. Millar Co., Picton, Ont.	"	
Oct. 8	"	47115	C. E. Smith, Halifax, N.S.	3 "	54	Ontario Canners Sarnia, Ont.	Wentzells Ltd., Halifax, N.S.	
" 8	"	47116	B. O. Bishop, Dartmouth, N.S.	3 "	45	A. C. Millar, Picton, Ont.	John Tobin & Co., Halifax, N.S.	
						DISTRICT OF PRINCE EDWARD ISLAND—		
Sept. 6	Canned tomatoes	46297	Grant & Co., Charlottetown, P.E.I	3 cans	60	J. S. Farren & Co., Baltimore, Md.		
" 6	"	46298	R. T. Maddigan & Co., Charlottetown, P.E.I.	3 "	45	Simcoe Canning Co., Simcoe, Ont.		
" 7	"	46299	A. Gates & Co., Charlottetown,	3 "	54	W. F. Applegarth, Goldenhill, Dorchester Co., Md.		
" 19	"	46300	Coffin & Co., Charlottetown, P.E.I.	3 "	45	The Old Homestead Canning Co., Picton, Ont.		
" 14	"	46301	A. J. Warren, Charlottetown, P.E.I.	3 "	54	Boulters, Picton Ont.		
" 14	"	46302	W. W. Walker, Charlottetown, P.E.I.	3 "	54	St. Eustache Canning Co., St. Eustache, P.Q.		
" 17	"	46303	Geo. Carver, Pownal, P.E.I.	3 "	48	Tecumseh Cann. Factory, Tecumseh, Ont.		

SESSIONAL PAPER No. 14

CANNED TOMATOES.

Results of Analysis.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		oz.	cc.	oz.	oz.			
R. J. WAUGH, INSPECTOR.								
Lynn Valley	Select	34·3	1010	14·2	20·1	Good	47105	
Prairie	Extra Quality	31·3	1050	16·0	18·3	"	47106	
E. D. S.	Select	21·3	650	6·9	14·4	"	47107	
Lynn Valley	"	34·4	1010	17·9	16·5	"	47108	
Big	First Quality	19·9	635	10·4	9·5	"	47109	
Grand River	Choice	32·9	1050	16·5	16·4	"	47110	
Air Ship		31·7	1050	15·7	16·0	"	47113	
Little Chief		32·1	1010	16·8	15·3	"	47114	
Prairie	Extra Quality.	33·8	1050	17·4	16·4	"	47115	
Little Chief		33·2	1060	14·6	18·6	"	47116	
WM. A. WEEKS, INSPECTOR.								
Shield		33·0	1050	12·9	20·1	Good	46297	
Lynn Valley	Select	33·0	1045	9·8	23·2	"	46298	
Pride of Golden Hill.	First Quality	32·9	1025	13·7	19·2	"	46299	
Old Homestead.		33·8	1040	13·0	20·8	"	46300	
Lion	Famous	32·6	1035	14·5	18·1	"	46301	
Union	First Quality.	32·9	1025	13·7	19·2	"	46302	
Tecumseh	Choice	34·2	1030	13·6	20·6	"	46303	

BULLETIN No. 246—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF PRINCE								
1912.								
Sept. 19	Canned Tomatoes	46304	M. Duffy, Charlottetown, P.E.I.	3 cans	54	The A. B. Salvor Canning Co., Bloomfield, Ont.	.....	.....
Oct. 1	" ..	46305	Sinclair & Stewart, Summerside, P.E.I.	3 "	48	The Felton Pack. Co., Felton, Del.	.....	.....
" 3	" ..	46306	A. Currie & Co., Souris, P.E.I.	3 "	57	J. W. Windsor, Montreal.	.....	.....
DISTRICT OF NEW BRUNSWICK								
Sept 9	Canned Tomatoes	50470	2 Barkers Ltd St. John N.B.	3 cans	42	The Port Milford Packing Co., Ltd., Ont Canada.	.....	Prince Edwards Pride.....
" 9	"	50471	Baird & Peters St. John, N.B.	"	47	W. W. Boyer & Co.,Baltimore M.D., U.S.A.	.....	"Star".....
" 10	"	50472	W. A. Simonds.. St. John, NB.	"	54	Bloomfield Packing Co., Ltd., Bloomfield, Ont.	.....	"Quaker".....
" 10	"	50473	McPherson Bros St. John, N.S.	"	54	Simcoe Canning Co., Simcoe, Ont.	.....	.."Lynn Valley
" 11	"	50474	H. A. Francis... St. John, N.B.	"	45	Stoney Point Canning Co., Ltd., Stoney Point, Ont.	.....	"Pointer".....
" 19	"	50475	Estate of J. Fred Shaw, St.John N.B.	"	45	The Ontario..... Pure Food Co. Ltd.	.....	"Red Seal".....
" 25	"	50476	J. & J. S. Titus.. St. Martins, N.B.	"	54	The Booth Packing Co., Baltimore, M. D., U.S.A.	.....	"Oval".....
Oct 3	"	50477	H. C. Jewett.... Fredericton, N.B.	"	54	Roberts Bros... Baltimore, M.D., U.S.A..	.....	"Big R".....
" 8	"	50478	Mrs. P. Legacy.. Grand Falls, N.B.	"	54	Dominion Canners, Ltd.	.....	"Gold Bond"...
" 16	"	50479	D. A. McBeath Moncton, N.B	"	48	The Essex Canning & Preserving Co., Ltd.	.....	"Essex".....

SESSIONAL PAPER No. 14

CANNED TOMATOES.

Brand.	Grade.	Results of Analysis. Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
EDWARD ISLAND—*Concluded.*								
		oz.	cc.	oz.	oz.			
	Choicest	32·4	1050	11·5	20·9	Good	16301	
Bell Cow		34·2	1035	14·1	20·1	"	16305	
Ice Castle	Unsurpassed Quality.	33·8	1010	14·9	19·0	"	16306	
J. C. FERGUSON, INSPECTOR.								
Prince Edwards Pride	Choice	34·3	1035	17·9	16·4	Good	50470	
Star		33·3	1010	13·7	19·6	"	50471	
Quaker		31·0	1050	12·0	19·0	"	50472	
Lynn Valley	Select	27·3	900	12·5	14·8	"	50473	
Pointer	Choice	33·8	1030	14·8	19·0	"	50474	
Pure Food		35·9	1035	13·6	22·3	"	50475	
Booth's Standard		33·4	1030	14·0	19·4	"	50476	
Big	Finest Quality	33·9	1010	13·1	20·8	"	50477	
Gold		32·4	1050	18·3	14·1	"	50478	
Essex	Select	35·4	1080	16·8	18·6	"	50479	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF QUEBEC—								
1912.								
Sept 3	Canned Tomatoes	37241	Eudore Delisle.. 2 Ave Tachereau, Quebec.	3 cans	54	St. Eustache.... Canning Co.	Turcot & Frère..	
" 4	"	37242	O. Lacroix..... 19 Rue St. Joseph, Quebec.	"	54	Tomatoes..... Co., Ont.	J. B. Reneaud... Quebec.....	
" 5	"	37243	W. Cantin 133 Rue du Pont, Quebec.	"		Tomatoes Co., Ont.	Joseph & Son Quebec.	
" 6	"	37244	G. Gingras, 268 Rue du Roie, Quebec.	"	51		Gaboury Ltd...	"Little Chief"..
" 9	"	37245	Cantin & Frère 271 Rue St. Joseph, Quebec.	"	51	W. Boulter, Pictou.	Turcot..... Frère.	
" 10	"	37246	C. S. Riverin 50 Rue de la Couronne Que-	"	54	Dominion Canners.	Turcot Frère....	
" 11	"	37247	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	"	45	Sudraill.....	Unknown.....	
" 12	"	37248	Arthur Drolet 714 Rue St. Valier. Quebec.	"	54	A. Damery Bay	Turcot & Frère	
" 13	"	37249	A. Rinfret, 414 Rue St. Joseph, Quebec.	"	51	St. Eustache Canning Co.	Gagnon & Garent.	
" 16	"	37250	Hamel & Bedard, 728 Rue St. Valier, Quebec.	"	54	Mill & Co., Picton.	Turcot & Frère..	
DISTRICT OF ST. HYACINTHE								
Sept. 16	Canned Tomatoes	1487	D. M. D. Cormier, St. Germain de Grantham.	3 cans	45	The Felton Packing, Co. Felton Del.	Lacaille & Gendreau, Montreal.	
" 17	"	1488	Carter & Co.... Abenakis Springs.	"	42	.....	Hudon, Hebert & Cie., Montreal.	
" 20	"	1489	M. Boisselle.... St. Anne.	"	45	W. Clark, Montreal.	.....	
" 27	"	1490	T. H. Raymond Iberville.	"	51	A. C. Miller & Co., Picton, Ont.	.....	
Oct. 2	"	1491	W. J. Smith..... Megantic.	"	45	Suddersville Canning Co., Suddersville, M.D.	.....	

SESSIONAL PAPER No. 14

CANNED TOMATOES.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Results of Analysis.						
F. X. W. E. BELAND, INSPECTOR.								
		oz.	cc.	oz.	oz.			
Union ...	First Quality . .	34·5	1100	15·3	19·2	Good	37241	
Tecumseh	Choice ..	33·0	1035	16·3	16·7	"	37242	
Tecumseh	"	31·8	1035	20·1	11·7	"	37243	
Little Chief .		31·9	1030	11·2	17·7	"	37244	
Boulter..	Famous .	32·8	1030	13·1	19·7	"	37245	
Little Chief .		31·9	1040	20·7	11·2	"	37246	
Air Ship.		33·1	1015	13·9	19·5	"	37247	
F. F. V .	Choice. .	33·8	1060	10·9	22·9	"	37248	
Union ..	First Quality	35·9	1095	12·0	23·9	"	37249	
Little Chief..	. . .	33·3	1030	19·1	13·9	"	37250	
J. C.. ROULEAU, INSPECTOR.								
Bell Cow		33·0	1010	20·8	12·2	good..	1187	
Gazelle....	Very Finest..	33·8	1030	18·5	15·3	"	1188	
.....	.... . .	33·0	1000	10·6	22·4	"	1489	
Little Chief.....	. .	33·8	1060	11·8	22·0	"	1490	
Airship...	..	33·5	1050	12·3	21·2	"	1491	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF ST. HYACINTHE—								
1912								
Oct. 3	Canned Tomatoes	1492	N. Hamel..... Magog.	3 cans	45	Church Bros.,... Pictou. Ont.	.....	.....
" 8	"	1493	R. H. Peardon, Eastman.	"	45	The Simcoe Canning, Co., Simcoe Ont.	.....	.....
" 10	"	1494	J. E. Robitaille, Sherbrooke.	"	45	T. Degruchy.... Laprarie.	.....	.....
" 14	"	1495	A. Clapin..... St. Hyacinthe	"	45	Church Bros.... Picton, Ont.	.....	.....
" 14	"	1496	Art. Houle..... St. Hyacinthe	"	45	J. S. Farren& Co.,Baltimore M.d.	.....	.....
DISTRICT OF MONTREAL—								
Sept. 3	Canned Tomatoes	50911	E. Paquette.... 39 Mount Royal ave. E., Montreal.	3 cans	45	Hudon Hebert & Co., Ltd.	Manufacturers...	"Gazelle".....
" 3	"	50912	Arthur Corbeil.. 55 Mount Royal ave. E. Montreal.	" "	42	The Felton Packing Co., Felton, Del.	.....	"Bell Cow".....
" 3	"	50913	Arthur Corbeil.. 55 Mount Royal ave. E., Montreal.	"	42	Tecumseh Canning Co., Ltd..	.....	"Tecumseh"....
" 3	"	50914	E. Boismems... 623 Colonial ave., Montreal	"	42	W. Lorrain..... Borda Plouffe P.Q.	.....	"Royal".....
" 3	"	50915	J. B. Valiquette Rachel,E., Montreal.	"	45	A. C. Miller & Co., Picton, Ont.	.....	"Little Chief"..
" 4	"	50916	S. Carey..... 176 Villeneuve St., Montreal	"	45	L. Chaput Fils & Cie., Montreal.	Manufacturers...	"Princess".....
" 4	"	50917	S. Carey..... 176 Villeneuve St., Montreal	"	45	Bloomfield Packing Co., Ltd.	.....	"Quaker".....
" 4	"	50918	L. P. Deslieres 1750 Cadieux St., Montreal	"	42	D. E. Foote & Co. Baltimore, M.d.	.....	"Foote's Best".
" 4	"	50919	L. P. Deslieres. 1750 Cadieux St., Montreal.	"	42	St-Isidore Canning Co., St-Isidore, P.Q.	.....	"Three Star"...
" 4	"	50920	T. Chevrette... 110 Mount Royal Ave. E. Montreal.	"	45	Chas. Webster East Newmarket, Dorchester, M.d.	.....	"Rosehill".....

SESSIONAL PAPER No. 14

CANNED TOMATOES.

Brand.	Grade.	Results of Analysis. Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.								
		oz.	cc.	oz.	oz.			
Lasso		32·4	1035	15·0	17·4	Good	1492	
Lynn Valley	Select	33·4	1050	15·6	17·8	"	1493	
	Choice	35·1	1070	15·2	19·9	"	1494	
Lasso		32·2	1030	13·4	18·8	"	1495	
Shield		32·9	1040	18·8	14·1	"	1496	
J. J. COSTIGAN, INSPECTOR.								
Gaelic	Finest	33·5	1020	13·3	20·2	Good.	50911	
Bell Cow		32·0	1030	15·2	17·4	"	50912	
Tecumseh	Choice	33·7	1040	10·8	22·9	"	50913	
Royal	Finest Quality	33·7	1040	18·2	15·5	"	50914	
Little Chief		29·0	1030	13·3	15·7	"	50915	
Princess	Extra Quality	32·4	1030	12·3	20·1	"	50916	
Quaker	Hand Packed	32·8	1035	16·2	16·6	"	50917	
Foote's Best	Selected	32·8	1025	20·0	12·8	"	50918	
Three Stars		34·5	1070	18·0	16·5	"	50919	
Rosehill	First Quality	33·3	1030	15·4	17·9	"	50920	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF OTTAWA—		
1912.								
Aug. 30	Canned Tomatoes	50281	John Wilson, Vankleek Hill	3 cans	54	Napanee Cann'g Co., Napanee, Ont.	Wm. Galbraith & Son, Montreal.	"Canada's Pride
" 31	"	50282	A. Meighan & Bro., Perth, Ont.	3 "	45	Sanitary Pack'g Co., Weston, Ont.	Geo. Robertson & Son, Kingston.	'Sanitary.'
Sept. 4	"	50283	A.S. Moreland, Ottawa.	3 "	45	The Simcoe Canning Co , Simcoe, Ont.	Mfrs.....	'Lynn Valley'—warranted pure and free from adulteration of any kind.
" 4	"	50284	Geo. Ager, Ottawa.	3 "	45	A. C. Miller & Co., Picton, Ont.	H. N. Bate & Sons, Ottawa.	'Little Chief.'
" 6	"	50285	A. S. Shaver, Brockville.	3 "	45	Delhi Fruit & Veg. Canning Co., DelhiOnt	Gilmour & Co., Brockville.	
" 12	"	50286	Major & Hurteau. Ottawa.	3 "	45	Baltimore Canning Co., Baltimore, Md.	E. M. Lerner, Ottawa.	'Old Scout.'
" 16	"	50287	W. Cunningham Ltd., Ottawa.	3 "	45	H. W. Roberts, Clara, Md.	S. J. Major, Ltd. Ottawa.	'Harvester.'
" 20	"	51627	McDonald Bros. Ottawa.	3 "	51	Brighton Cann'g Co., Brighton, Ont.	F.J. Castle Co.,' Ottawa.	Thistle.'
" 20	"	51634	Wall & Co., Ottawa.	3 "	45	Simcoe Caninng Co., Simcoe, Ont.	Mfrs.....	'Lynn Valley'—warranted pure and free from adulteration of any kind.
" 20	"	51636	P. Devine & Co. Ottawa.	3 "	45	W. Boulter & Sons, Picton,	Moreland, Bank St. Ottawa.	'Lion'—Peerless Quality.
						DISTRICT OF KINGSTON		
Sept. 3	Canned Tomatoes	50781	Geo. Gibson, Kingston.	3 cans	45	Orsers Home Cannery, Bloomfield.		
" 3	"	50782	Wm. Davies, Kingston.	3 "	45	Napanee Cann'g Co., Napance.		
" 3	"	50783	L. W. Murphy, Kingston.	3 "	45	Baltimore Canning Co., Baltimore.		
" 4	"	50784	W.E. Hopkinson Kingston.	3 "	45	Beamsville P. Co., Beamsville.		
" 4	"	50785	C. Saunders, Kingston.	3 "	45	The Old H. C. Co., Picton.		
" 4	"	50786	D. Couper, Kingston.	3 "	45	Port Milford P. Co.		
" 4	"	50787	Anderson Bros., Kingston.	3 "	50	The Old H. C. Co., Picton.		
" 4	"	50788	C. H. Pickering, Kingston.	3 "	45	Brighton Cann'g Co., Brighton.		
" 4	"	50889	W. J. Nesbitt, Kingston.	3 "	45	The Old H. C. Co., Picton.		
" 4	"	50790	Jas Crawford, Kingston.	3 "	45	Essex C. & P. Co.		

SESSIONAL PAPER No. 14

ANNED TOMATOES.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Results of Analysis.						
J. A. RICKEY, INSPECTOR.								
		oz.	cc.	oz.	oz.			
Canada's Pride		33·4	1070	11·6	21·8	Good	50281	
Sanitary	Selected	34·5	1070	13·9	20·6	"	50282	
Lynn Valley	Select	33·1	1045	13·8	19·3	"	50283	
Little Chief		33·4	1030	16·1	17·0	"	50284	
Maple Leaf	First Quality	34·9	1050	15·2	19·7	"	50285	
Old Scout		33·0	1000	11·9	21·1	"	50286	
Harvester		33·9	1035	17·5	16·4	"	50287	
Thistle	Selected	30·4	1030	15·8	11·6	"	51627	
Lyna Valley	Select	33·6	1020	14·0	19·6	"	51634	
Boulters	Famous	34·2	1040	17·6	16·6	"	51636	
JAS. HOGAN, INSPECTOR.								
Highlander	Superior	33·4	1010	9·1	24·3	Good	50781	
Canada's Pride		32·9	1040	15·1	17·8	"	50782	
Old Scout		33·0	1020	18·6	14·4	"	50783	
Peerless	Hand packed	34·2	1050	17·7	16·5	"	50784	
Old Homestead		33·0	1025	13·0	20·0	"	50785	
Prince Edward's Pride.	Choice	35·6	1100	13·8	21·8	"	50786	
Old Homestead		32·6	1040	15·5	17·1	"	50787	
Thistle		33·8	1035	13·7	20·1	"	50788	
Old Homestead		33·3	1035	14·4	18·9	"	50789	
Essex	Select	35·9	1060	13	22·0	"	50790	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF TORONTO—		
1912.								
Sept. 9	Canned Tomatoes	49472	Eby Blain Ltd., Front St., E., Toronto	3 cans	45	Clayton Orser Packing Co., Colborne, Ont		'Puritan.'
" 9	"	49473	Groceries, Ltd., 31 Front St., E., Toronto.	3 "	40	Church Bros Picton, Ont.		'Lasso.'
" 9	"	49474	F. W. Humphrey, 47 Front St., E., Toronto.	3 "	45	The Fort Milford Packing Co. Ltd., Port Milford, Ont.		'Prince Edwards Pride.'
" 9	"	49475	Jas. Lumbers Co. Ltd., 67 Front St., E., Toronto.	3 "	40	The Pelham Cann. Co. Ltd Ridgeville.		'Pelham.'
" 9	"	49476	Medland Bros., 73 Front St., E., Toronto.	3 "	40	Aylmer Canning Co., Ltd., Aylmer.		'Canada First.'
" 10	"	49477	G. W. Perrault, 595 Parliment St., Toronto.	3 "	60	The Vineland Canning Co. Ltd., Vineland		'Vine.'
" 10	"	49478	J. W. Quackenbush, 237 Gerrard St. E., Toronto.	3 "	45	Beamsville Preserving Co., Beamsville.		'Peerless.'
" 12	"	49479	T. Eaton Co. Ltd., Queen & Yonge Sts., Toronto.	3 "	45	Sanitary Packing Co., Weston.		'W. G. T. Sanitary.'
" 12	"	49480	Swan Bros., 169 King St. E., Toronto.	3 "	45	Jno. W. Hyatt Sons, Westlake.		'Sunset.'
" 12	"	49481	J. Page, 396 Spadina Ave., Toronto.	3 "	45	Brighton Canning Co. Brighton.		'Thistle.'"
						DISTRICT OF WINDSOR—		
Oct. 2	Canned Tomatoes	48147	R. Stirrett Co., Petrolia.	3 Cans	45	Vineland Canning Co., Vineland.		'Vine Brand.'
" 2	"	48149	C. Matson, Petrolia.	3 "	45	E. D. Smith, Winona.		E. D. S. pure food packers.
" 2	"	48151	A. Duncan & Co., Wyoming	3 "	38	Lambton Packing Co., Petrolia.		'Meadow Sweet'
" 2	"	48154	John E. Anderson, Wyoming	3 "	45	Ont. Canners Ltd., Sarnia.		'Prairie' Tomatoes.
" 3	"	48157	A. H. Gammon & Son, Sarnia.	3 "	45	Ont. Canners Ltd., Sarnia.		'Prairie Toma-' toes.
" 3	"	48158	Jas. Galbraith, Sarnia.			Ont. Canners Ltd., Sarnia.		'Prairie' Tomatoes.
" 3	"	48159	Wm. Johnston, Sarnia.	3 "	45	Bloomfield Packing Co., Bloomfield, Ont.		'Quaker.'
" 3	"	48160	W. H. Tricker, Sarnia.	3 "	45	E. Sharp, Virginia, U.S.		'Milden.'
" 4	"	48169	E. Gallagher, Strathroy.	3 "	45	Delhi Canning Co., Delhi.		'Maple Leaf.'
" 4	"	48170	O'Dwyer & Jay, Sarnia.	3 "	45	Tecumseh Canning Co., Tecumseh.		'Tecumseh.'

SESSIONAL PAPER No. 14

CANNED TOMATOES.

Brand.	Grade.	Results of Analysis. Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
H. J. DAGER—INSPECTOR.								
		oz.	cc.	oz.	oz.			
Puritan	Supreme	34·9	1030	15·4	19·5	Good	49472	
Lasso		32·8	1020	16·1	16·7	"	49473	
Prince Edwards Pride.	Choice	34·6	1030	16·1	18·5	"	49474	
Pelham	High Grade	34·5	1030	16·0	18·5	"	49475	
Canada First	Choice	28·2	z880	12·7	15·5	"	49476	
Vine		34·3	1040	20·2	14·1	Slightly fermented	49477	
Peerless	Hand Packed	33·8	1035	14·4	19·4	Good.	49478	
Sanitary	High grade	33·4	1020	19·5	13·9	"	49479	
Sunset	Hand Packed	33·9	982	15·5	18·4	"	49480	
Thistle		34·5	1050	19·8	14·7	"	49481	
JNO. TALBOT—INSPECTOR.								
Vine		33·9	1030	11·4	22·5	Good.	48147	
E. D. Smith	Finest	33·5	1050	12·4	21·1	"	48149	
Meadow Sweet		33·0	1060	13·3	19·7	"	48151	
Prairie	Extra Quality	33·8	1035	13·4	20·4	"	48154	
Prairie	Extra Quality	33·3	1040	11·7	21·6	"	48157	
"	"	33·0	1040	13·2	19·8	"	48158	
Quaker	Hand Packed	29·9	1050	11·4	18·5	"	48159	
Milden		33·4	1000	13·0	20·4	"	48160	
Maple Leaf	First Quality	33·4	1040	16·3	17·1	"	48169	
Tecumseh		33·4	1045	15·6	17·8	"	48170	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF MANITOBA		
1912								
Sept. 17	Canned Tomatoes	48731	J. E. Manning, Sargent Ave. Winnipeg.	3 cans	55	The Delhi F. & Veg. Canning Co., Delhi, Ont.	Unknown.....	'Maple Leaf'
" 17	"	48732	R. Seymour,, Sargant Ave. Winnipeg.	3 "	55	Orsers, Bloomfield, Ont.	"	'Highlander'
" 17	"	48733	Conley & Yost, Sargent Ave., Winnipeg.	3 "	50	R. W. Messenger & Co. Federalsburg.	"	'Lucky Horse Shoe
" 18	"	48734	B. Amason, Sargent Ave. Winnipeg.	3 "	55	Orsers, Bloomfield, Ont.	"	'Highlander'
" 18	"	48735	C. Corneil, Langside St., Winnipeg.	3 "	4 5 T	he Delhi F. & Veg. Canning Co., Delhi, Ont.	"	'Maple Leaf'
" 18	"	48736	W. S. Shipman, Sargent, Ave., Winnipeg.	3 "	54	The Canning Co Pieton, Ont.	"	'OldHomestead,
" 19	"	48737	M. Shiner, Emerson.	3 "	50	Orsers, Bloomfield. Ont.	.....	....
" 19	"	48738	C. A. Whitman, Emerson.	3 "	50	TheGardenCity Cann. & Pres Co., St. Catherines, Ont.	.....	.....
" 23	"	48739	W. H. Morgan, Winnipeg.	3 "	60	Isaac Usher, St. Davids, Ont.	.....	.....
" 23	"	48740	Western Mercantile Co., Winnipeg.	3 "	60	The Delhi F. & Veg. Canning Co., Delhi, Ont.	.....	'Maple Leaf'
						DISTRICT OF NELSON—		
Sept. 3	Canned Tomatoes	49686	Union Cash Grocery, Nelson, B.C.	3 cans	50	Bayside Cunning Co., Alviso, Cal., U. S.A.		
" 3	"	49693	Bell Trading Co. Nelson, B.C.	3 "	50	Balfour & Co., Hamilton.	.....	'Tartan'.....
" 3	"	49694	Bell Trading Co. Nelson, B.C.	3 "	50	J. Lumbers & Co., Toronto.	.....	'Glenrose'.....
" 6	"	49696	Diamond Vale S. Co., Merritt B.C.	3 " 3 "	60	Brighton Canning Co., Brighton.	.....	'Thistle'.....
" 6	"	49706	G B. Armstrong Merritt, B.C.	3 "	60	Canadian Canners, Hamilton.	.....	'Faultless'.....
" 6	"	49707	" "	3 "	60	BloomfieldPacking Co., Bloomfield.	.....	'Quaker'.....
" 6	"	49710	Merritt Merc. Co., Merritt, B. C.	3 "	90	Code Portwood Canning Co., Fruitvale, Cal. U.S.A.	.....	.....

CANNED TOMATOES.

Brand.	Grade.	Results of Analysis. Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
A. C. LARIVIERE, INSPECTOR.								
		oz.	cc.	oz.	oz.			
Maple Leaf	First Quality	33·4	1050	16·9	16·5	Good	48731	
Highlander	Superior	33·7	1020	14·0	19·7	"	48732	
Lucky HorseShoe		31·8	1030	11·3	20·5	"	48733	
Highlander	Superior	33·8	1000	17·4	16·4	"	48734	
Maple Leaf	First Quality	34·7	1035	10·4	24·3	"	48735	
Old Homestead		33·8	1015	18·7	15·1	"	48736	
Highlander	Superior Quality	33·4	1000	14·5	18·9	"	48737	
Garden City	Choice	33·3	1025	13·1	20·2	"	48738	
Home Grown		33·9	1010	11·7	21·6	"	48739	
Maple Leaf	First Quality	32·0	1035	14·2	17·8	"	48740	
THOS. PARKER, INSPECTOR.								
Bohemian	Choice	28·7	880	12·3	16·4	Good	49686	
Tartan		33·9	1010	20·5	13·4	"	49693	
Glenrose		33·8	1025	12·0	21·8	"	49694	
Thistle		33·0	890	16·1	16·6	"	49696	
Faultless	Selected	28·7	890	15·8	12·9	"	49706	
Quaker	Hand Packed	28·7	900	14·1	14·6	"	49707	
All Gold	Extra	29·6	885	10·8	18·8	"	49710	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF NELSON—								
1912.								
Sept. 9	Canned Tomatoes	49716	L. C. Masson, Revelstoke B.C.	3 cans	50	Mnson Ehrman Co. Portland, Ore.		
" 9	"	49717	" "	3 "	50	Pratt Low Preserving Co., Santa Clara, Cal.		
" 9	"	49718	" "	3 "	50	Cutting Packing Co., SanFrancisco, Cal.		
DISTRICT OF VANCOUVER								
Sept. 25	Canned Tomatoes	38439	A. C. Barting, 8th Ave. and Granville St., Vancouver, B.C.	3 cans	40	California Canners, Ltd. San Francisco, Cal		
" 25	"	38440	A. MacFarlane, 1469 Broadw'y W. Vancouver B.C.	3 "	45	Wayne Packing Co., San Jose, Cal.		
" 25	"	38441	London Grocery 6th Ave. and Granville St., Vancouver,	3 "	45	Port Milford Packing Co., Port Milford, Ont.		
" 25	"	38442	Gruchy & Carlaw, 5th Ave. and Granville, Vancouver, B.C.	3 "	45	Kelowna Packing Co., Kelowna, Ont.		
" 25	"	38443	Samuel Bell, 2023 Granville St., Vancouver B.C.	3 "	40	Fruit Vale Canning Co., Fruit Vale, Cal., U.S.A.		
" 26	"	38844	Cook Bros., 1619 4the Av. West Vancouver B.C.	3 "	45	Cutting Packing Co., San Francisco, Cal.		
" 26	"	38445	Webster Bros., Granville St., Vancouver,	3 "	45	Aylmer Canning Co., Aylmer, Ont.		
" 26	"	38446	Halpin's Grocery, 1169 Granville St., Vancouver, B.C.	3 "	45	Brighton Canning Co., Brighton, Ont		
" 26	"	38447	H. H. Owens, 1100 Granville St., Vancouver, B.C.	3 "	45	Pratt Low Preserving Co., Santa Clara, Cal., U.S.A.		
" 26	"	38448	London Grocery Granville St., Vancouver, B.C.	3 "	45	Christian Fritz, Vineland, Ont.		

SESSIONAL PAPER No. 14

CANNED TOMATOES.

Brand.	Grade.	Net weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Results of Analysis.						
Concluded.								
		oz.	cc.	oz.	oz.			
Mico		28·0	880	14·2	13·8	Good	49716	
The Talisman	Selected	26·6	860	14·1	12·5	"	49717	
Cutting Packing Co.		28·2	860	18·5	19·7	"	49718	
J. F. POWER, INSPECTOR.								
Bear	California Tomatoes.	29·1	870	12·5	16·9	Good	38439	
"	"	28·5	885	11·6	16·9	"	38440	
Prince Edward's Pride	Choice	35·8	1080	15·8	20·0	"	38441	
Orchard City	Finest	34·5	1000	14·6	19·9	"	38442	
Alamo		29·4	855	12·5	16·9	"	38443	
Cutting Packing Co.		29·1	890	14·3	14·8	"	38444	
Canada First	Choice	29·2	885	11·4	17·8	"	38445	
Thistle	Selected	28·7	890	9·7	19·0	"	38446	
Talisman	"	25·7	870	12·5	13·2	"	38447	
Glenrose		34·3	1050	12·1	22·2	"	38448	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF VICTORIA—
1912								
Sept. 10	Canned Tomatoes	49228	Windsor Grocery Co., 817 Govt. S., Victoria, B.C.	3 cans	35	The Kelowna Canning Co., Ltd., Kelown B.C.		"Kelowna"
" 11	"	49229	The West End Grocery Co., Ltd., 1002 Government St., Victoria, B.C.	3 "	50	Bloomfield P. Co., Ltd., Bloomfield, Ont.		"Quaker"
" 12	"	49230	Copas & Young, 631 Fort St., Victoria, B.C.	3 "	45	Balfour Smye, Co., Hamilt'n Ont.		"Tartan"
" 16	"	49231	Acton Bros. 1317 Douglas St., Victoria B.C.,	3 "	45	Bloomfield P. Co., Ltd., Bloomfield, Ont.		"Quaker"
" 16	"	49232	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	3 "	50	Bayside Cann'g Co., Alviso, Santa Clara, Cal.		"Bohemian"
" 18	"	49233	D. H. Ross & Co., 1317 Government St., Victoria, B.C.	3 "	50	The Kelowna Canning Co., Ltd., Kelowna, B.C.		"Kelowna"
" 19	"	49234	Harrison & McDonald, Victoria, B.C.	3 "	40	The Kelowna Canning Co., Ltd., Kelowna, B.C.		"Kelowna"
" 20	"	49235	F. E. Plummer, 1118 QuadraSt Victoria, B.C.	3 "	45	Bloomfield P. Co., Ltd., Bloomfield, Ont.		"Quaker"
" 24	"	49236	G. J. Bailey, 758 Fort St., Victoria, B.C.	3 "	45	Bay Side Canning Co., Alviso, Santa Clara, Cal.		"Bohemian"
" 25	"	49237	Erskine & Co., 861 Johnston St., Victoria, B.C.	3 "	45	Bloomfield Packing Co., Bloomfield, Ont.		"Quaker"

SESSIONAL PAPER No. 14

CANNED TOMATOES.

Brand.	Grade.	Net Weight.	Capacity of can.	Water.	Solids.	Condition of Sample.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Results of Analysis.						
D. O'SULLIVAN, INSPECTOR.								
		oz.	cc.	oz.	oz.			
Kelowna	Finest	20·8	660	8·6	12·2	Good	49228	
Quaker	Hand packed	28·5	875	12·7	15·8	"	49229	
Tartan		33·4	1050	14·9	18·5	"	49230	
Quaker	Hand packed	29·1	890	12·9	16·2	"	49231	
Bohemian	Choice	27·8	890	11·3	16·5	"	49232	
Kelowna	Finest	34·7	900	13·9	20·8	"	49233	
Kelowna	"	21·1	660	9·3	11·8	"	49234	
Quaker	Hand packed	28·7	890	11·6	17·1	"	49235	
Bohemian	Choice	27·6	835	11·1	16·5	"	49236	
Quaker	Hand packed	20·4	635	9·5	10·9	"	49237	

APPENDIX K.

BULLETIN No. 247—CHEESE.

OTTAWA, January 9, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report dealing with 141 samples of cheese, purchased throughout Canada in September and October, 1912.

The last inspection of Cheese occured in October, 1908; and is reported in Bulletin No. 171 of this laboratory. In this Bulletin a recommendation for the standardization of Canadian Cheese was made, and the inspection then reported was held to justify as follows:—

Water limit—30%.
Fat (on dry substance) not less than 48%.

The samples submitted to analysis on that occasion had been wrapped in double paraffined paper, in order to prevent loss of water in the interval between their collection, and their examination here. This interval was between two and three months, and although the samples were meantime kept in cold storage, it was recognized that some loss of moisture must have taken place. In the variously suggested standards for Cheese in other countries no mention is made of water content; and my attention was later (March 1909) drawn to the fact that the water content of cheese is largely dependent upon the age of the article, the ordinary shrinkage of an 80 lb. cheese being from 2 to 3 pounds in the first month of ripening, and about one pound per month afterwards. (Letter from the Dairy and Cold Storage Commissioner. 29 March 1909).

In the present case an attempt has been made to learn the age of the cheese; and samples were enclosed in sealed bottles to prevent loss of moisture during shipment, and in storage. The results of analysis are therefore a better guide to the actual amount of moisture in market cheese, and particularly interesting when put into comparison with the table given on page 2 of Bulletin 171.

Inspection District.	No. of sample.	Percentage of water.		Mean.
		Maximum.	Minimum.	
Nova Scotia	10	34·10	28·80	32·16
Prince Edward Island	10	33·80	22·50	30·18
NewBrunswick	10	36·38	30·20	32·53
Quebec	10	34·94	25·34	30·57
St. Hyacinthe	10	35·78	28·70	31·49
Montreal	10	37·62	26·28	31·26
Ottawa	11	36·76	25·46	31·74
Kingston	10	35·44	25·60	31·13
Toronto	10	32·00	22·94	28·70
Windsor	10	32·66	27·24	29·97
Manitoba	10	37·16	25·20	30·05
Nelson	10	35·52	27·20	32·34
Vancouver	10	32·76	26·80	30·08
Victoria	10	34·70	23·24	30·53
Total	141			Mean 30·90

In view of these results, it is apparent that a somewhat wider limit for water than that suggested in Bulletin 171 may be justified, and it is possible that this might be set at 35%. The mean found for 141 samples now reported is 30.90%. For 237 samples of Bulletin 171, it was found to be 27.00%.

The fat ,expressed as a percentage on the dry substance, is found to be as follows:—

Fat below 45%	None.
" from 45 to 46%	12 samples.
" " 46 " 47%	27 "
" " 47 " 48%	28 "
" " 48 " 49%	18 "
" " 49 " 50%	13 "
" above 50%	43 "
Total	141

It thus appears that 74 samples, or more than fifty per cent of the collection, contain about 48 per cent of fat, calculated upon the dry substance of the cheese; while 102 samples, or over 70 per cent of the collection, contain above 47 per cent of fat. None of the samples in this collection contained less than 45 per cent of fat.

That a standard for fat in cheese should be established in the interest of both domestic and export trade, will readily be conceded. Of course the manufacture of whole milk cheese from normal milk, involves such periodic variation in the character of the cheese as corresponds to the variation found in milk itself, for the different seasons of the year. From this point of view it may be proper to consider a varying percentage of fat for cheese made at different periods of the year.

The data furnished herein, together with that found in Bulletin No. 171, may enable us to arrive at some desirable decision in this regard.

I beg to recommend the publication of this report as Bulletin No. 247.

I have the honour, to be, Sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
DISTRICT OF NOVA SCOTIA—								
1912								
Oct. 3	Cheese....	47117	Colchesters Co. F. Co-Op.assoen. Truro, N.S...	3 lbs.	54	Unknown.....	Black & Co. Truro, N.S...	No wax on rind.
" 4	"	47118	Smith Proctor Halifax, N.S.	2½ "	50	Hazlewood Factory, P.E.I.	.....	2 months old, no wax on rind.
" 4	"	47119	Rooney & Lovett, Halifax, N.S.....	2¼ "	45	Unknown.....	Purchased through a jobber.....	P.E.I. cheese 3 months old, no wax.....
" 5	"	47120	B.E. Wight, Lunenburg, N.S.	2¼ "	45	"	Jno. Tobin & Co Halifax, N.S.	Age not stated,. no wax.....
" 5	"	47121	J. S. Berringer, Lunenburg, N S.....	2¼ "	40	"	Wentzells, Ltd. Halifax, N.S.	Age not stated, no wax.....
" 7	"	47122	P. T. Shea, Halifax, N.S.....	2¼ "	50	Clover Hill, N. B. Cheese Factory.....	Mfr.....	Said to be July cheese, no wax
" 7	"	47123	J. D. Stewart, Halifax, N.S.	2¼ "	40	Unknown.....	Jno. Tobin & Co Halifax, N.S.	About 2 months old, no wax. Said to be P.E.I. cheese.
" 7	"	47124	Jas. Hogan, Halifax, N.S.....	2¼ "	45	"	Nickerson & Hart.....	3 months old, no wax. Sold as P.E.I. cheese.
" 8	"	47125	S. Thomson, Dartmouth, N.S.....	2¼ "	45	F. W. Fearman Hamilton,Ont	Mfr.....	4 months old, no wax.....
" 8	"	47126	G. A. Orman, Dartmouth, N.S.....	2¼ "	45	Unknown.....	Unknown.....	SoldasKingsCo N.S. cheese, 2 ms. old, no wax...
DISTRICT OF PRINCE EDWARD ISLAND—								
Sept. 6	Cheese....	46217	R. J. Maddigan & Co ChTown P.E.I.....	3 lbs	54	.....	Carbell Bros., ChTown, P. E.I.....	This season's make not covered with Paraffin or wax..
" 6	"	46218	Grant & Co., Ch, Town P. E.I.....	3 "	54	.....	A. J. Biffin, Ch-Town P.E.I.	" "
" 7	"	46219	A. Gates & Co., ChTown, P. E.I.....	3 "	54	.....	Dillon & Spillet Ch Town, P. E.I.....	" "
" 14	"	46220	Coffin & Co. Ch-Town, P.E.I..	3 "	54	Unknown.....	.....	" "
" 17	"	46221	George Forbes, Vernon River Bridge P.E.I.	3 "	48	Vernon River F. Vernon River P.E.I.	.....	" "
" 21	"	46222	Sanderson & Co. ChTown, P. E.I.....	3 "	54	Unknown.....	.....	" "
ct. 1	"	46223	Brace McKay & Summerside, P.E.I.....	3 "	51	Lot 16 Cheese Factory P.E.I	.....	" "
" 1	"	46224	Sinelair & Stewart, Summerside, P.E.I....	3 "	55	Egmont Bay F. P.E.I.....	.....	" "
" 3	"	46225	A. Currie & Co., Souris, P.E.I.	3 "	60	Souris Cheese F. P.E.I.....	.....	" "
" 3	"	46226	J. J. Hughes, Souris P.E.I.	3 "	54	Souris Dairying Co Souris, P. E.I.....	.....	" "

SESSIONAL PAPER No. 14

CHEESE

Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance		
R. J. WAUGH, INSPECTOR.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
31·70	32·40	3·30	1·12	32·30	47·43	47117	
31·86	33·00	3·80	1·22	31·34	48·43	47118	
33·36	33·00	3·32	1·09	30 32	49·52	47119	
34·10	31·20	3·40	0·59	31·30	47·34	47120	
33·98	31·20	3·44	0·86	31·48	47·25	47121	
28·80	37·20	3·72	1·15	30·28	52·24	47122	
33·86	32·40	3·14	1·32	30 60	48·98	47123	
31·20	34·20	2·74	0 99	31 86	49·69	47124	
32·60	33·00	3·80	1·48	30 60	48·94	47125	
30·22	36·00	3·66	1·18	30·12	51·58	47126	
WM. A. WEEKS, INSPECTOR.							
30·34	36·00	2·92	0 66	30·74	51·68	46217	
27·90	34·20	3·38	0 82	31·52	47·43	46218	
31·80	33·60	3·96	1·18	30·64	49·26	46219	
27·74	34·20	3·60	1·09	34·46	47·33	46220	
33·80	33·00	3·46	1·21	29·74	49·84	46221	
30·80	33·00	4·20	1·32	32·00	47·39	46222	
30·60	36·00	3·76	1·15	29·64	51·87	46223	
33·80	30·00	3·60	0·69	32·60	45·32	46224	
22·50	36·00	4·28	1·25	37·22	46·45	46225	
32·54	31·20	3·30	1·09	32·96	46·24	46226	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor — Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF NEW [illegible] WIC		
1912.								
Sept. 9	Cheese...	45690	Vanwart Bros., St. John, N.B.	3 lbs.	60	.....	Northrup & Co., St. John, N.B.	[illegible] g's Co., N.B heese.
" 10	" ...	45691	McPherson Bros. St. John, N.B.	3 " ..	72	F. W. Fearman Co. Ltd. Hamilton, Ont.	.....	e, 1912.....
" 11	" ...	45692	Walter Gilbert, St. John, N.B.	3 " ..	48	McLaren Imperial Cheese Co. Toronto.		Paraffin waxed June Cheese.
" 11	" ...	45693	H. S. Francis, St. John, N.B.	3 " ..	60	.....	G. E. Barbour Co., Ltd., St. John, N.B.	Albert Co., N.B Cheese. Unwaxed Twin Cheese No. 27238.
" 14	" ...	45694	H. L. Alexander. St. John, N.B.	3 " ..	60	.....	G. S. DeForest & Sons, St. John, N.B.	Twin Cheese, unwaxed No. 76. N.B. Cheese.
" 19	" ...	45695	Estate of J. Fred Shaw, St. John, N.B.	3 " ..	52	.....	H.W. Cole, Ltd., St. John, N.B.	Twin Cheese, unwaxed.
Oct. 3	" ...	45696	G. T. Whelpley Estate, Fredericton, N.B.	3 " ..	54	.....	H.W. Cole, Ltd., St. John, N.B.	Unwaxed P.E.I Cheese.
" 4	" ...	45697	Yerxa Grocery Co., Woodstock, N.B.	3 " ..	54	.....	A. F. Randolph & Son, Fredericton, N.B.	June Cheese. Twin Cheese. Unwaxed.
" 15	" ...	45698	Mills Eveliegh, Ltd., Sussex, N.B.	3 " ..	54	Mount Middleton Factory, Kings Co., N.B.	.....	Twin Cheese, unwaxed.
" 16	" ...	45699	The 2 Barkers, Ltd., Moncton N.B.	3 " ..	54	Thos. G. Perry, Lower Ridge, N.B.		" "
						DISTRICT OF QUEBEC—		
Sept. 3	Cheese....	37462	Eudore Delisle, 2 Ave. Tachereau, Quebec.	2 lbs.	40	Unknown.....	Octave Jacques, Quebec.	Age unknown...
" 4	" ...	37463	O. Lacroix, 19 rue St. Joseph, Quebec.	2 " ..	44	McLaren's Imperial Cheese Co., Toronto.	.....	Spring Cheese..
" 5	" ...	37464	W. Cantin, 133 rue du Pont, Quebec.	2 " ..	40	.....	Dom. Fish & F. Co.	Age unknown...
" 6	" ...	37465	G. Gingras, 268 rue du Roi, Quebec.	2 " ..	40	Unknown.....	Emond & Cote.	Spring Cheese..
" 9	" ...	37466	Cantin & Frere, 271 rue St. Joseph, Quebec.	2 " ..	30	"	J. B. Reneaud & Cie.	Age unknown...
" 10	" ...	37467	C. S. Riverin, 50 rue de la Couronne, Quebec.	2 " ..	40	Gagne L'Anee, St. Jean Chicoutimi.	Philbert Boucher.	Made in Aug., 1912.

CHEESE.

Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance		
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
J. C. FERGUSON, INSPECTOR.							
31·10	33·60	3·20	0·82	32·10	48·60	45690	
30·20	31·80	2·40	0·63	35·60	45·56	45691	
30·50	31·80	3·26	0·76	34·44	45·75	45692	
33·86	32·40	3·94	1·05	29·80	48·80	45693	
32·80	35·40	2·60	0·69	29·20	52·67	45694	
32·00	36·00	3·30	0·78	28·70	52·74	45695	
32·08	33·60	3·42	0·72	30·90	49·40	45696	
34·20	31·60	3·96	1·18	30·24	48·02	45697	
36·38	31·80	3·80	1·12	28·02	46·62	45698	
32·20	33·60	3·60	0·98	30·60	49·55	45699	
F. X. W. E. BELAND, INSPECTOR.							
28·22	37·20	3·06	0·92	31·52	51·82	37462	
31·70	34·80	3·94	0·89	29·56	50·95	37463	
25·34	37·20	3·86	0·72	33·60	49·87	37464	
29·50	33·00	3·80	1·02	33·70	46·80	37465	
28·82	37·20	2·90	0·69	31·08	52·26	37466	
34·94	33·60	2·74	0·66	28·72	51·64	37467	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address. of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
								DISTRICT OF QUEBEC—
1912.								
Sept. 11	Cheese...	37468	Myrand & Pouliot, 70 rue de la Couronne, Quebec.	2 lbs..	38	Unknown.....	J. B. Reneaud & Cie.	Age Unknown..
" 12	" ...	37469	Arthur Drolet, 714 rue St. Valier, Quebec.	2 " ..	49	"	Dom. Fish & Fruit Co.	" ...
" 13	" ...	37470	Arthur Riufret, 614 rue St. Joseph, Quebec	2 " ..	39	"	O. Jacques.....	" ...
" 16	" ...	37471	Hamel & Bedard, 728 rue St Valier, Quebec	2 " ..	40	Jos. Boucher, St. Hyacinthe.	Manufacturer ...	Made in June, 1912.
								DISTRICT OF ST. HYACINTHE—
Sept. 18	Cheese...	1401	Geo. Beaulac, Sorel.	1¾ lb.	32	Mr. Choquette, Mont. Johnson.	P. C. Lemoine, Sorel.	
" 17	" ...	1402	Schooner & Cie, Pierreville.	2¼ " .	40	.....	Laporte, Martin & Cie, Moutreal.	
" 24	" ...	1403	H. Claprood, St. Jean.	1 15/16 " .	35	Thos. Barriere, St. Gregoire.		
" 25	" ...	1404	Art. Maclean, Bedford.	1 15/16 " .	37		Forbes Bros., Montreal.	
" 26	" ...	1405	O. C. Selby, Dunham.	2 " .	36	J. Strong, West Sutton.		
Oct. 1	" ...	1406	L. H. Olivier, Sherbrooke.	1 15/16 " .	37	L. A. Corriveau, Magog.		
" 2	" ...	1407	E. Huard & Cie, Megantic.	2 " .	36		L. Chaput fils & Cie, Montreal.	
" 3	" ...	1408	Gurin & Boulay, Coaticook.	2¼ " .	38		"	
" 8	" ...	1409	J. A. Moquin, Eastman.	2 " .	36	Unknown.....	Unknown.....	.....
" 14	" ...	1410	Thos. Hebert, St. Hyacinthe	2½ " .	50	.....	Gunn, Langlois & Cie.	.....
								DISTRICT OF MONTREAL—
Sept. 25	Cheese...	50921	M. Kilkerry, 208 M. R. Ave. E., Montreal.	2 lbs..	40	.....	Gunn, Langlois & Co.	Paraffin Coated.
" 25	" ...	50922	L. J. Pharneuf, 541 M. R. Ave E., Montreal.	2¼ " .	45	Unknown.....	Unknown.....	.....
" 25	" ...	50923	E. St. Germain et Cie, 591 M. R. Ave. E., Montreal.	2 " .	40	.....	.....	.....
" 26	" ...	50924	A. Deslieres, 1130 A, Andre St., Montreal.	2 " .	40	.....	Whyte Packing Co.	Paraffin Coated.

SESSIONAL PAPER No. 14

CHEESE.

Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance		
Concluded.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
32·70	36·00	3·30	0·95	28·00	53·49	37468	
32·14	32·10	3·56	0·98	31·90	47·74	37469	
31·80	33·00	3·12	1·15	32·08	48·39	37470	
30·52	37 80	3·08	0 66	28·60	54·40	37471	
J. C. ROULEAU, INSPECTOR.							
28·70	37·20	2·70	0·40	31·10	52 17	1101	
35·78	30·00	3·40	0·99	30·82	46·56	1102	
30·20	33·60	3·30	0·92	32·90	48·13	1103	
31·08	36·00	3·30	0 82	29·62	52·23	1104	
34·28	30·60	3·38	0·99	31·74	46·40	1105	
31·10	36·00	2·90	0·72	30·00	52·10	1106	
30·10	32·40	3·78	1·28	33·72	52·31	1107	
29·60	33·60	3·20	1·05	33·60	47·72	1108	
32·36	35·40	3·50	1·32	28·74	52·33	1109	
31·72	36·00	3·76	0·99	28·52	52·72	1110	
J. J. COSTIGAN, INSPECTOR.							
29·98	32·40	3·46	0·86	34·16	46·24	50921	
28·42	33 60	3·86	1·25	34·12	46·94	50922	
29·64	36·06	3·60	1·35	30·76	51·02	50923	
32·90	31·20	3·70	1·12	32·20	46·50	50924	

BULLETIN No. 247—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address. of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
DISTRICT OF MONTREAL—								
1912.								
Sept. 26	Cheese...	50925	S. Lalonde et fils, 578 Marie Ann E., Montreal.	2 lbs. 3 oz.	43	.....	W. Champagne, Montreal.	.....
" 26	" ...	50926	P. Brunet fils et Cie, 699 M. R. Ave. E., Montreal.	2 lbs..	40	.....	Z. Limoges, Montreal.	.....
" 26	" ...	50927	H. Longtin, 347 Boyer St., Montreal.	2 " .	38	Unknown.....	Unknown.....	Paraffin Coated.
" 26	" ...	50928	Swift's Prov. Store, Fairmount Ave., Montreal.	2 " .	46	.....	Whyte Packing Co.	.....
" 26	" ...	50929	D. Hamilton, 71 Fairmount Ave., Montreal.	2 " .	38	.....	Z. Limoges, Montreal.	.....
" 26	" ...	50930	"	2 " .	48	.....	"	.....
DISTRICT OF OTTAWA—								
Aug. 31	Cheese	50202	C. A. Farmer & Son, Perth Ont	3 lbs.	60	3rd line, Bathurst, Factory	.....	Labelled M.14 on Box, not coated with paraffin.
Sept. 4	"	50203	A. S. Moreland, Ottawa.	"	"		.....	Made in June at Bourget, Ont.
" 6	"	50204	F. H. Clifford, Brockville.	"	"	Strong & Clark.	Derbyshire, Brockville.	Roseville Brand coated with paraffin.
" "	"	50205	J. Culbert, Brockville.	"	"	Geo. Carr, Fairfield.	Mfr.....	Made in June, not coated.
" 7	"	50206	Jas. H. Bradley, Prescott.	"	57	Jno. Tretwell, Grenville Facory.	.....	Made in August, not coated.
" 16	"	50207	E.M. Lerner & Son, Ottawa.	4¼ "	71	J. Campbell, Ormond.	.....	" "
" 16	"	50208	J. Moyneur, Ltd Ottawa.	2½ "	38	C. St. Onge, Embrun.	.....	" "
" 16	"	50209	Matthews, Laing Ltd By Ward Mark. Ottawa.	2¼ "	45	Unknown'	.....	Made Sept., 1911 at Jockvale, Ont.
" 16	"	50210	J. Freedman, Ottawa.	4¾ "	73	Fairview Factory, West Templeton.	.....	Made in August.
" 18	"	50211	R. Harrison, Merrickville..	2 "	35	Rideau Valley.	.....	Made in July.
" 20	"	51626	McDonald Bros. Gladstone Av Ottawa.	3 "	38	G. H. Taylor, Dalmeny, Ont	.....	"Gordon Model Factory—made in August.

SESSIONAL PAPER No. 14

CHEESE.

Results of Analysis.

Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on Dry Substance.	No.	Remarks, and Opinion of the Chief Analyst.
Concluded.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
31·88	33·60	3·60	1·02	30·92	49·3[illegible]	[illegible]0025	
31·60	34·80	3·11	0·92	30·16	50·50	50026	
31·12	33·00	3·24	0·63	32·64	47·8[illegible]	50027	
26·28	34·80	3·72	0·92	35·20	47·20	50028	
27·62	30·00	2·74	1·02	39·64	48·09	50029	
32·82	31·80	2·94	0·66	32·44	47·18	50030	

J. A. RICKEY, INSPECTOR.

32·44	35·40	3·71	1·08	28·72	52·16	50202
32·26	32·40	3·84	1·15	31·40	47·90	50203
30·76	30·20	3·46	0·85	29·58	47·75	50204
32·80	31·80	3·62	1·08	31·78	47·32	50205
35·14	29·40	3·48	0·95	31·98	45·33	50206
32·12	31·80	3·48	0·85	32·60	46·85	50207
32·40	32·40	3·00	0·69	32·20	47·92	50208
28·74	37·20	3·36	0·82	30·70	52·20	50209
25·46	36·00	3·66	1·25	34·88	48·29	50210
32·88	30·60	3·58	1·15	32·94	45·58	50211
23·48	33·00	4·08	1·61	39·44	46·14	[51626

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF KINGSTON—		
1912.								
Sept. 3	Cheese....	50701	Wm. Davies, Kingston.	3 lbs.	54	.....	J. Gibson, Kingston.	Made in May.
" 3	" ..	50702	J. Gilbert, Kingston.	2¾ "	50	A. E. Bradshaw Harrowsmith.	.....	.....
" 3	" ..	50703	J. E. Purdy, Kingston.	2 "	40	.....	A. McLean, Kingston.	.....
" 3	" ..	50704	J. Campbell, Kingston.	2½ "	50	.....	J. Y Parkhill, Kingston.	.....
" 3	" ..	50705	J. A. Percy.... Kingston.	2½ "	50	.....	J. Y. Parkhill, Kingston.	.....
" 3	" ..	50706	W. J. Arnill,.... Kingston.	2 "	36	.....	A. Maclean,..... Kingston.	.....
" 4	" ..	50707	W. E. Hopkinson, Kingston.	2½ "	45	Uunknown...	.....	.....
" 4	" ..	50708	H. M. Stover, . Kingston.	2 "	36	.....	J. Y. Parkhill, Kingston.	.....
" 4	" ..	50709	W. J. Lee, Kingston.	2 "	36	.....	J. Y. Parkhill, Kingston.	.....
" 4	" ..	50710	P. A. Happner, Kingston.	4 "	34	.....	A. Maclean,.... Kingston.	.....
						DISTRICT OF TORONTO—		
Sept. 10	Cheese..	49482	A. E. Browne, 198 A Carleton St. Toronto.	2 lbs.	36	.....	McLaren's Imperial Cheese Co., Toronto.	Vendor says he is quite sure cheese was coated with paraffin.
" 10	"	49483	D. M. Cooper, 230 Wellington St., Toronto.	2 "	40	....	Willard & Co., Prov. Merchant, Toronto.	
" 10	"	49484	C. Grant. 257 Gerard St., east, Toronto.	2 "	40	.....	John J. Fee, Toronto.	
" 11	"	49485	H. Vankouhnet, 169 Wilton ave., Toronto.	2 "	45	.....	Rutherford-Marshall, Ltd., Toronto.	
Sept. 11	"	49486	J. & W. McFarren, 214 Queen st.east, Toronto.	2 "	43	.....	McLaren's Imperial Cheese Toronto.	Made in June and coated with paraffin.
" 11	"	49487	G. Robertson, 108 Shuter St., Toronto.	2 "	38	.....	Willard & Co., Toronto.	
" 12	"	49488	E. K. Scolay & Co., 63 Jarvis St., Toronto.	2 "	34	.....	Gunns, Ltd., Toronto.	
" 12	"	49489	C. F. Thorne, 107 Wassan St. Toronto.	2 "	40	.....	McLarens Imperial Cheese Co., Toronto.	Vendor says he is quite sure of its being coated with paraffin.
" 12	"	49490	John Davison, 331 Bathurst St., Toronto.	2 "	42	....	Morely & Ewing, Toronto.	
" 12	"	49491	A. White, 438 College St.. Toronto.	2 "	42	.....	Matthews Laing Ltd., Toronto	

SESSIONAL PAPER No. 14

CHEESE.

RESULTS OF ANALYSIS.

Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance.	No. on Sample.	Remarks, and Opinion of the Chief Analyst.
JAS. HOGAN—INSPECTOR.							
p.c.	p.c.	p.c.	p.c.	p.c.			
32·66	33 60	[illegible]	3 94	51·10	[illegible]	[illegible]	
35·43	30 00	[illegible]	[illegible]	31 36	[illegible]	[illegible]	
32·30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
29·02	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
31·84	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
32 74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
33·40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
30 50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
27 84	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
25·60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
H. J. DAGER—INSPECTOR.							
32 00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
30 98	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
28 60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
31·40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
28 96	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
28·28	32·40	[illegible]	[illegible]	36·01	45·17	[illegible]	
29 66	32 40	[illegible]	[illegible]	34 20	[illegible]	[illegible]	
28 06	36 00	[illegible]	[illegible]	32 74	50 04	[illegible]	
26 16	34 80	[illegible]	0 66	35 74	47 12	[illegible]	
22 94	35 40	[illegible]	1 15	37 86	46 71	[illegible]	

BULLETIN No. 247—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address. of Vendor.	Cost. Quantity	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
								DISTRICT OF WINDSOR—
1912.								
Sept. 5	Cheese....	48276	E. R. Newman, London, Ont.	2 lbs.	40	.....	J. Garvey & Son London, Ont.	Not Paraffined.
" 5	" ...	48278	Thos. Shaw, London, Ont.	3 "	60	.....	Masuret & Co., London, Ont.	"
" 5	" ...	48280	P. Sands, London, Ont.	3 "	70	.....	A. M. Smith & Co., London, Ont.	"
" 6	" ...	48281	H. Ranshaw, don, Ont.	2¾ "	62	.....	"	Made in Jun. 1912. *Not paraffined.*
" 6	" ...	48282	Willis & Co., London, Ont.	3 "	58	Thorndale Cheese Factory.	.....	Made in May, 1912. *Not paraffined.*
" 6	" ...	48283	John Diprose, London, Ont.	3 "	50	.....	A. W. Smith & Co., London, Ont.	Made in June, 1912. Not Paraffined.
" 6	" ...	48284	Jas. O'Donnell, London, Ont.	2½ "	45	.....	Jas. Morley, London, Ont.	"
" 9	" ...	48285	R. McIntosh, London, Ont.	2½ "	60	.....	Scandreth Bros. London, Ont.	"
" 9	" ...	48286	R. J. Wood, London, Ont.	2½ "	"	.....	Jas. Morley, London, Ont.	"
" 9	" ...	48287	Wm. Smith, London, Ont.	2½ "	45	.....	J. Garvey & Son London, Ont.	"
								DISTRICT OF MANITOBA—
Sept. 12	Cheese....	48741	Peter Watt, Transcona.	3 lbs.	65	Unknown.....	Gordon Ironside & Fares Co., Winnipeg.	Canadian made.
" 17	" ...	48742	J. E. Manning, Sargent Ave., Winnipeg.	3 "	60	"	The Jobin Marrin Co., Ltd..	"
" 17	" ...	48743	R. Seymour, Sargent Ave., Winnipeg.	3 "	60	"	Unknown.....	"
" 17	" ...	48744	McKenzie and Reeve, Sargent AveW'pg	3 "	65	"	"	"
" 17	" ...	48745	Conly & Yost, Sargent Ave., Winnipeg.	3 "	60	"	A Macdonald & Co., Winnipeg.	"
" 18	" ...	48746	B. Amason, Sargent Ave., Winnipeg.	3 "	60	.....	Campbell Bros. and Wilson, Winnipeg.	
" 18	" ...	48747	C. Corneil, Langside St.. Winnipeg.	3 "	60	.....	The Codville Co Winnipeg.	
" 18	" ...	48748	W. S. Shipman, Sargent Ave., Winnipeg.	3 "	66	.....	The Codville Co., Winnipeg.	.....
" 30	" ...	48749	P. H. Menlove, Winnipeg.	3 "	60	.....	The Codville Co., Winnipeg.	.....
" 30	" ...	48750	Templeton & Co., Winnipeg.	3 "	60	.....	A. Macdonald & Co., Winnipeg.	.....

SESSIONAL PAPER No. 14

CHEESE.

Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance		
JOHN TALBOT, INSPECTOR.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
29 64	36 60	3.70	1.05	30 06	52.01	48276	
31.92	34 20	3 64	0 76	30.24	50.23	48278	
29.20	33 60	3 90	0 99	33 30	47.45	48280	
29.00	33 00	2 30	1.05	35 70	46.49	48281	
27.24	36 60	3 60	0 92	32 56	50.30	48282	
28.00	34 80	3 80	0.92	33.40	48.33	48283.	
31.10	31 20	3 76	0.86	33.94	45.28	48284	
30.92	34 80	3 26	0 86	31.02	50 37	48285	
32 66	31 20	3 70	0 95	32.44	46.32	48286	
30.00	33 60	3 56	0 86	32 84	48.00	48287	
A. C. LARIVIERE, INSPECTOR.							
31·20	32·40	2·76	0·86	33·64	47·09	48711	
29·74	32·40	3·36	0·92	34·50	46·25	48742	
37·16	30·00	4·58	1·02	28·26	47·77	48743	
31·54	32·40	3·30	0·72	32·56	47·32	48744	
25·20	37·80	4·28	1·55	32·72	50·53	48745	
23·72	32·40	3·74	1·18	35·14	45·45	48746	
28·44	34·20	3·40	0·69	33·96	47·79	48747	
27·46	33·60	2·72	0·89	36·22	46·32	48748	
29·82	36·00	3·60	1·18	30·58	51·29	48749	
31·30	33·60	3·66	1·15	31·44	48·90	48750	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF NELSON—
1912.								
Sept. 3	Cheese....	49684	M. Scally, Nelson, B.C.	2 lbs.	45	.....	Swift Canadian Co., Nelson,	Waxed.....
" 3	" ...	49695	Bell Trading Co Nelson, B.C..	2 "	45	.....	Olive Dorin, Strand, Montreal.	.....
" 6	" ...	49697	Diamond Vale T. Co., Merritt, B.C.	2 "	50	.....	Kelly Douglas Co., Vancouver.	Waxed.....
" 3	" ...	49705	G. B. Armstron' Merritt, B.C.	2 "	50	.....	F. R. Stewart & Co., Vancouver.	" .....
" 9	" ...	49723	L. C. Masson, Revelstoke, B.C.	2 "	50	.....	P. Burns & Co., Revelstoke, B.C.	Not waxed.....
" 9	" ...	49728	Bourne Bros., Revelstoke, B.C.	2 "	50	.....	P. Burns & Co., Revelstoke, B.C.	" .....
" 10	" ...	49738	C. B. Hume & Co., Revelstoke, B.C.	2 "	50	.....	J. D. Moore & Co., St. Marcy's.	" ....
" 10	" ...	49743	RevelstokeMeat Mkt., Revelstoke, B.C.	2 "	50	.....	Swift Canadian Co., -Edmonton.	" .....
" 23	" ...	49744	C. A. Warren, Golden, B.C.	2 "	50	.....	Plunkett and Savage, Calgary.	" .....
" 23	" ...	49751	H. G. Parson, Ltd., Golden, B.C.	2 "	50	.....	Kelly, Douglas Co., Vancouver.	Waxed.....
								DISTRICT OF VANCOUVER—
Sept. 27	Cheese....	38399	W. H. Walsh Co Ltd., Eburne, B.C.	1 lb...	25	Unknown.....	Naismith & Co. Vanc.	.....
" 27	" ...	38400	Eburne Grocery Eburne, B.C..	1 "	25	"	W. H. Malkin & Co., Vanc. ..	.....
" 27	" ...	38401	T. W. Turner, Pender St., Vancouver.	1 " ..	20	"	F. R. Stewart, Vanc	.....
" 27	" ...	38402	Eburne Trading Co., Eburne, B.C.	1 "	20	"	F. R. Stewart, Vanc.	.....
" 27	" ...	38403	David Spencer, Ltd., Van..	1 "	20	Ingersoll Cheese Co., Ingersoll, Ont.	.....	.....
" 28	" ...	38404	Frank Wright, Seymour St., Van.	1 " ..	20	Unknown.....	F. R. Stewart, Vanc.	.....
" 28	" ...	38405	W. Cowling, 1374 Pender St., Van.	1 "	25	"	Milne Produce Co., Vanc.	.....
" 28	" ...	38406	D. McGregor, Pender St. W., Vancouver.	1 "	25	"	Milne Produce Co., Vanc.	.....
" 28	" ...	38407	J. Johnson, 1112 Pender St., W, Vancouver.	1 "	25	"	Kelly Douglas, Vanc.	....
" 28	" ...	38408	J. R. Gosling, 942 Pender W, Vancouver.	1 "	25	"	Milne Produce Vanc.	....

CHEESE.

Results of Analysis.							Remarks, and Opinion of the Chief Analyst.
Water.	Fat.	Total Ash.	Salt in Ash	Curd by Difference.	Fat on dry Substance	No. of Sample.	
THOS. PARKER, INSPECTOR.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
31·20	31·80	3·42	0·78	33·58	46·22	49681	
35·52	30·00	3·30	0·63	31·18	46·51	49695	
33·40	31·20	3·40	0·78	32·00	46·87	49697	
33·80	31·20	3·62	0·66	32·50	47·11	49705	
27·20	36·00	4·30	1·12	32·50	49·45	49723	
35·00	30·00	2·92	0·72	32·08	46·09	49728	
30·40	33·00	2·80	0·56	33·80	47·11	49738	
34·08	30·00	3·12	0·59	32·80	45·56	49743	
31·10	33·60	3·50	0·89	31·80	48·76	49744	
31·68	34·80	3·80	0·92	29·72	50·93	49751	
J. F. POWER, INSPECTOR.							
30·60	36·00	2·64	0·66	30·76	51·87	[illegible]	
32·32	33·60	3·16	0·63	30·92	49·64	[illegible]	
29·00	33·00	2·80	0·59	35·20	46·48	38401	
30·48	33·60	3·20	0·59	32·72	48·33	38402	
30·58	36·00	3·52	0·66	29·90	51·86	38403	
32·76	34·80	2·82	0·86	29·62	51·75	38404	
26·90	37·20	3·60	0·95	32·30	50·88	38405	
31·60	34·80	3·06	0·59	30·54	50·08	38406	
29·80	37·20	3·22	0·86	29·78	52·99	38407	
26·80	37·80	3·60	0·92	31·80	51·63	38408	

BULLETIN No. 247—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF VICTORIA—
1912								
Sept. 10	Cheese....	49168	Windsor Groery Co., 817 Douglas St., Victoria, B.C.	2 lbs.	50	.....	F. R. Stewart & Co., Victoria, B.C.	.....
" 11	" ...	49169	The west End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	2 "	50	.....	R. P. Rithet & Co., Victoria, B.C.	.....
" 12	" ...	49170	Copas & Young, Victoria, B.C.	2 "	40	.....	F. R. Stewart & Co., Victoria, B.C.	.....
				2 "				
" 16	" ...	49171	Acton Bros., Victoria, B.C.	2 "	45	.....	Swift Canadian Co., Victoria, B.C.	.....
" 16	" ...	49172	H. & K. Grocery Victoria, B.C.	2 "	50	McLarens Imperial Cheese Co., Ltd., Ingersoll, Ont.	.....	.....
" 18	" ...	49173	D. H. Ross & Co., Victoria, B.C.	2 "	50	.....	Swift Canadian Co., Victoria, B.C.	.....
" 18	" ...	49174	Harrison & McDonald, Victoria, B.C.	2 "	50	.....	Naismith & Co. Vancouver,	.....
" 20	" ...	49175	F. E. Plummer, Victoria, B.C.	2 "	50		Simon Leiser & Co., Victoria, B.C.	.....
" 24	" ...	49176	E. G. Bailey, Victoria, B.C.	2 "	50	.....	Swift Canadian Co., Victoria, B.C.	.....
" 25	" ...	49177	Erskine & Co., Victoria, B.C.	2 "	50	.....	R. P. Rithet & Co., Victoria, B.C.	.....

SESSIONAL PAPER No. 14

CHEESE.

Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
Water.	Fat.	Total Ash.	Salt in Ash.	Curd by Difference.	Fat on dry Substance		
D. O'SULLIVAN, INSPECTOR.							
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
23·24	39·00	3·80	1·25	33·96	50·80	49168	
30·56	34·80	3·02	0·87	31·62	50·11	49169	
34·70	31·20	2·80	0·72	31·30	47·77	49170	
29·16	33·60	3·86	0·92	33·38	47·41	49171	
33·40	31·20	3·58	0·86	31·52	46·84	49172	
33·30	31·20	3·32	0·92	32·18	46·77	49173	
32·32	32·40	3·40	0·92	31·88	47·81	49174	
27·80	31·80	3·20	0·99	34·20	48·20	49175	
30·60	36·00	3·54	0·72	29·85	51·87	49176	
20·20	35·40	3·10	0·96	31·30	50·71	49177	

APPENDIX L.

BULLETIN No. 248—GROUND BLACK PEPPER.

Ottawa, Jan. 25, 1913.

Wm. Himsworth, Esq.,
Acting Deputy Minister Inland Revenue.

Sir,—I beg to hand you a report upon 280 samples of Ground Black Pepper, purchased in September and October last, in fourteen of the Food Inspection Districts of Canada.

It has generally been accepted that mineral matter (ash) should not exceed 7 per cent, in black pepper.

I pointed out, in Bulletin No. 203, of 1910 which contains a report of our last general inspection of pepper, that this standard has no legal recognition, although there can be no doubt of its justifiability, in the light of very large experience with commercial pepper. Samples herein reported as containing but slight excess of Ash, and not otherwise fraudulent, I have adjudged as doubtful.

Upon this basis the following general summary of the collection is made:—

District.	Sold as Compound.	Genuine.	Adulterated.	Doubtful	Total.
Nova Scotia		19	0	1	20
Prince Edward Island		17	0	3	20
New Brunswick		19	1	0	20
Quebec		9	10	1	20
St. Hyacinthe	1	9	10	0	20
Montreal		12	8	0	20
Ottawa		13	7	0	20
Kingston		17	1	2	20
Toronto		17	3	0	20
Windsor		16	2	2	20
Manitoba		18	2	0	20
Nelson		18	1	1	20
Vancouver		20	0	0	20
Victoria		19	0	1	20
	1	223	45	11	280

It will be noted that expressed in percentages, the showing is as below:—

Genuine	80 per cent.
Adulterated	17 "
Doubtful	4 "

A summary of the results of inspection of pepper from 1876 to 1910 appears in Bulletin No. 203, and the average adulteration is there shown to be 40 per cent, for the period.

Of black peppers examined in 1910, 18 per cent were found to be adulterated. The present report shows very little improvement, and indicates that more frequent examination of this article is necessary; and that ascertained frauds must be penalized, as the Act provides.

The Districts of Quebec, St. Hyacinthe, Montreal and Ottawa are those in which the greatest amount of adulteration is found.

I beg to recommend publication of this report as Bulletin No. 248.

I have the honour to be, Sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 248—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF NOVA SCOTIA—
1912.								
Sept. 11	Ground B. Pepper	46801	Wentzells Ltd., Halifax, N.S.	¾ lb.	18	J. P. Mott & Co. Halifax, N.S.	Mfrs.	.....
" 13	"	46802	Jno. P. Mott & Co., Halifax, N.S.	¾ "	Nil	Vendors.		
" 13	"	46803	Nat. Drug & Chem Co., Halifax, N.S.	¾ "	18	"		
" 16	"	46804	Morrison & Williams, Halifax N.S.	¾ "	15	S. H. Ewing, Montreal.	J. F. Crowe & Co., Halifax, N.S.	.....
" 17	"	46805	Bauld Bros.,Ltd Halifax, N.S.	¾ "	18	Unknown. Said to be John P. Mott & Co.		.....
" 17	"	46806	Jas. Scott & Co., Halifax, N.S.	¾ "	30	W. H. Schwartz & Sons, Halifax, N.S.	Mfrs.	.....
" 18	"	46807	Corkum & Ritcey, Halifax, N.S.	¾ "	18	Gorman Eckert Co., London, Ont.	Mfrs.	.....
" 18	"	46808	A. J. Baker & Co Halifax, N.S.	¾ "	30	Gorman Eckert Co., London, Ont.	Mfrs.	.....
" 19	"	46809	W. H. Schwartz & Sons, Halifax, N.S.	¾ "	15	Vendors.		.....
" 19	"	46810	E. W. Crease & Son, Halifax, N.S.	¾ "	19	Jno. P. Mott & Co., Halifax, N.S.	Mfrs.	.....
" 19	"	46811	Dillon Bros., Halifax, N.S.	¾ "	22	Todhunter & Mitchell, Toronto.	Mfrs.	.....
" 24	"	46812	L. C. Gardner & Co ,Yarmouth N.S.	¾ "	20	Dearborn & Co. St. John, N.B.		.....
" 27	"	46813	Eisener & Coleman, Dartmouth, N.S.	¾ "	20	C. H. Cochrane Co., Ottawa.	Mfrs.	.....
Oct. 3	"	46814	Colchester Co'y Farmers' Co-op. Associat'n, Truro, N.S.	¾ "	27	W. H. Schwartz & Sons, Halifax, N.S.	Mfrs.	.....
" 3	"	46815	Angus & Pollock Truro, N.S.	¾ "	22	Unknown.		.....
" 3	"	46816	A. F. Ross & Co Truro, N.S.	¾ "	24	Dearborn & Co., St. John, N.S.	Mfrs.	.....
" 5	"	46817	J. B. Young, Lunenburg, N.S.	¾ "	25	Jno. P. Mott & Co., Halifax, N.S.	"	.....
" 5	"	46818	J. W. Smeltzer, Luaenburg, N S.	¾ "	19	W. H. Schwartz & Sons, Halifax, N.S.	"	.....
" 5	"	46819	B. G. Oxner, Lunenburg, N S.	¾ "	15	Barbour & Co., St. John, N.S.	"	.....
" 5	"	46820	J. S. Berringer, Lunenburg, N S.	¾ "	20	W. A. Freeman Co., Hamilton Ont.		.....

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
R. J. WAUGH, INSPECTOR.			
p. c.			
6·68	Pepper tissues only.....	46801	Genuine.
4·60	" "	46802	"
7·06	" "	46803	"
8·50	" " with a little dust.....	46804	Excess mineral matter—Doubtful.
5·12	" "	46805	Genuine.
5·30	" "	46806	"
4·60	" "	46807	"
4·86	" "	46808	"
5·20	" "	46809	"
1·54	" " (white pepper)..	46810	"
4·32	" "	46811	"
5·42	" "	46812	"
5·68	" "	46813	"
4·60	" "	46814	"
5·32	" "	46815	"
5·56	" "	46816	"
4·60	" "	46817	"
5·66	" "	46818	"
5·78	" "	46819	"
4·96	" "	46820	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF PRINCE EDWARD ISLAND—								
1912								
Sept. 6	Ground B. Pepper	46227	Grant & Co. Ch. Town, P.E.I.	¾ lb	21	Dearbon & Co., St. John, N.B		
" 6	"	46228	J. G. Jamieson, Ch.Town. "	¾ "	30	Lymans, Ltd., Montreal.		
" 7	"	46229	A. Gates & Co., Ch.Town. "	¾ "	21	Chapeau Fils, Montreal.		
" 9	"	46230	Coffin & Co., Ch.Town. "	¾ "	21	Barbour & Co., St. John, N.B.		
" 10	"	46231	The 2 Mac's, Ch.Town. "	¾ "	30	Lymans Ltd., Montreal.		
" 10	"	46232	McKinnon Drug Co.Ch.Town "	¾ "	24	Unknown		
" 12	"	46233	A. J. Warren, Ch.Town. "	¾ "	24		J.A.Farquharson & Co. Ch. Town, P.E.I.	
" 12	"	46234	J. G. Passmore, Ch.Town. "	¾ "	24	Crown Spice Mills.		
" 14	"	46235	Reddin Bros., Ch.Town. "	¾ "	30	Lymans Ltd., Montreal.		
" 17	"	46236	George Forbes, Vernon River Bridge, P.E.I.	¾ "	18	Unknown		
" 17	"	46237	George Carver, Pownall, P.E.I.	¾ "	24	Unknown		
" 18	"	46238	H. Currie, Peakes Sta., Ch.Town. "	¾ "	21	Crown Spice Mills, Ch. Town, P.E.I.		
" 19	"	46239	M. Duffy, Ch. Town, P.E.I.	¾ "	30	White Swan, S. & C. Ltd., Toronto.		
" 21	"	46240	Apothecaries Hall, Co., Ch.Town. "	¾ "	24	Unknown		
" 21	"	46241	Sanderson &Co. Ch.Town. "	¾ "	21	Schwarts, Halifax, N.S.		
Oct. 1	"	46242	Gourlies Ltd., Summerside, P.E.I.	¾ "	30	Lymans Ltd., Montreal.		
" 1	"	46243	Sinclair & Stewart, Ch.town "	¾ "	30	Schwartz & Sons, Halifax, N.S.		
" 1	"	46244	Brace McKay & Co., Ch.town."	¾ "	24	Pure Gold Co., Toronto.		
" 3	"	46245	A. Currie & Co., Souris, P.E.I.	¾ "	24	Crown Spice Mills, Ch. Town, P.E.I.		
" 3	"	46246	Mathew & McLean, Ch.town "	¾ "	24	Schwartz & Sons Halifax, N.S.		
DISTRICT OF NEW BRUNSWICK—								
Sept. 4	Ground B. Pepper	45700	Dearborn & Co. St. John, N.B.	¾ lb	15	Vendors		
" 4	"	50401	Puddington, Wetmore, & Morrison. St. John, N.B.	¾ "	18	"		

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
Wm. A. WEEKS, INSPECTOR.			
p. c.			
5·42	Pepper tissues only..	46227	Genuine.
5·00	" "	46228	"
5·40	" "	46229	"
7·58	" "	46230	"
5·72	" "	46231	"
5·30	" "	46232	"
8·76	" "	46233	Excess mineral matter. Doubtful.
5·46	" "	46234	Genuine.
4·64	" "	46235	"
5·94	" "	46236	"
8·04	" "	46237	Excess Mineral matter. Doubtful.
6·56	" "	46238	Genuine.
8·16	" "	46239	Excess mineral matter. Doubtful.
4·36	" "	46240	Genuine.
5·00	" "	46241	"
5·08	" "	46242	"
4·80	" "	46243	"
5·34	" "	46244	"
5·54	" "	46245	"
5·84	" "	46246	"
J. C. FERGUSON, INSPECTOR.			
5·76	Pepper tissues only	45700	Genuine.
7·90	" "	50101	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF NEW BRUNSWICK		
1912.								
Sept. 4	Ground B. Pepper	50402	G. E. Barbour Co., Ltd., St. John, N.B.	¾ lb.	23	Vendors		
" 5	"	50403	H.W.Cole, Ltd., St. John, N.B.	¾ "	21	"		
" 5	"	50404	McCready &Son Ltd., St. John N.B.	¾ "	15	"		
" 9	"	50405	2 Barkers, Ltd. St. John, N.B.	¾ "	15	"		
" 9	"	50406	Baird & Peters, St. John, N.B.	¾ "	13	"		
" 10	"	50407	W. A. Simonds, St. John, N.B.	¾ "	23	Todhunter, Mitchell & Co., Toronto, Ont.		
" 11	"	50408	E. W. Rowley, St. John, N.B.	¾ "	21	L. N. Thorne, St. John, N.B.		
" 16	"	50409	M. E. Grass, St. John, N.B.	¾ "	30	White Swan Spices Co., Toronto.		
" 25	"	50410	J. & J. S. Titus, St. Martins, N.B.	¾ "	23		Jones & Schofield, St. John, N.B.	
Oct. 3	"	50411	M. C. Jewett, Fredericton,	¾ "	20		A. F. Randolph, & Son., Fredericton, N.B.	
" 4	"	50412	Yerxa Grocery Co., Woodstock, N.B.	¾ "	30	White Swan spices & Cerals, Toronto, Ont.		
" 8	"	50413	J. L. White, Grand Falls, N.B.	¾ "	30	Unknown	Unknown	
" 15	"	50414	Sussex Mercantile Co., Ltd., Sussex, N.B.	¾ "	21		H.W.Cole,Ltd., St. John, N.B.	'Thistle" brand,
" 16	"	50415	Cassidy & Belliveau, Moncton, N.B.	¾ "	24		Reed Co., Ltd., Moncton, N.B	
" 17	"	50416	Baird & Peters, Newcastle, N.B.	½ "	20	Vendors		
" 17	"	50417	James Mailer, Newcastle, N.B.	¾ "	30		Baird & Peters, Newcastle, N.B.	
" 18	"	50418	J. B. Snowball Co., Ltd., Chatham,N.B.	¾ "	30	Todhunter, Mitchell & Co., Toronto, Ont.		
" 19	"	50419	Frank P.Gatain, Bathurst, N.B.	¾ "	24		H.W.,Cole,Ltd. St. John, N.B.	'Thistle" brand
						DISTRICT OF QUEBEC		
Sept. 3	Ground B. Pepper	37472	Eudore Delisle, 2 Ave. Taschereau, Quebec	¾ lb.	18	Herron and Leblanc.	Mfrs	
" 5	"	37473	N. Cantin, 133 Rue du Pont, Quebec.	¾ "	18	Unknown	Unknown	

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER

Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
—Concluded.			
p. c.			
7·32	Pepper tissues only	50402	Genuine.
6·00	" "	50403	"
6·60	" "	50404	"
5·34	" "	50405	"
5·48	" "	50406	"
5·58	" "	50407	"
6·40	" "	50408	"
4·76	" "	50409	"
4·66	" "	50410	"
5·90	" "	50411	"
4·46	" "	50412	"
4·96	" "	50413	"
4·90	" "	50414	"
7·40	" " with a little foreign stone cells.	50415	Excess of mineral matter, also foreign cells. Adulterated.
5·78	" "	50416	Genuine.
4·84	" "	50417	"
4·76	" "	50418	"
5·76	" "	50419	"
—F. X. W. E. BELAND, INSPECTOR.			
4·92	Pepper tissues, maize and wheat starch.	37472	Adulterated.
6·36	Pepper tissues only	37473	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer	Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF QUEBEC
1912								
Sept. 6	Ground B.Pepper	37474	G. Gingras, 268 Rue du Roie, Quebec.	¾ lb	18	Unknown.....	W. Brunet et Cie	...
" 7	"	37475	Cantin & Frere, 271 Rue St. Joseph, Que.	¾ "	20	"	Langlois & Paradis.	.....
" 10	"	37476	C. S. Riverin, 50 Rue de la Couronne, Quebec.	¾ "	18	"	Turcot & Frere.	.....
" 11	"	37477	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	¾ "	18	"	Unknown.....	.....
" 12	"	37478	Arthur Drolet, 714 Rue St. Valier, Queb'c	¾ "	21	Herron & Leblanc.	Mfrs.....	.....
" 13	"	37479	Arthur Rinfred, 414 Rue St. Joseph, Que.	¾ "	18	Unknown.....	Unknown.....	.....
" 16	"	37480	Hamel & Bedard, 728 Rue St. Valier, Quebec.	¾ "	20	Lemesarier and Son.	Whitcad & Turner.	.....
" 17	"	37481	V. Lacasse & Cie, 7 Rue St. Clair, Quebec.	¾ "	27	J. Lemesarie & Son.	" "	.....
" 17	"	37482	J. E. Paquet, 8 Rue Sutherland, Quebec.	¾ "	18	Unknown... ...	Unknown.....	.....
" 17	"	37483	J. Rochette, 7 Rue Deligny, Quebec.	¾ "	24	J. Lemesarier & Son.	J. B. Renecaud..	.....
" 18	"	37484	J. S. Gauvin, 29 Cote St. Genieve, Quebec.	¾ "	20	Unknown.....	Gagnon & Garent.	.....
" 18	"	37485	Alfred Boily, 38 Cote St. Genieve, Quebec.	¾ "	18	.....	.....	.....
" 18	"	37486	M.Boyce & Son, 921 Cote St. Genieve, Que.	¾ "	18	Herron & Leblanc.	Mfrs.....	.....
" 18	"	37487	J. A. Tramblay, 139 Rue Richelieu, Quebec.	¾ "	27	Herron and Leblanc.	J. B. Renecaud..	.....
" 19	"	37488	George Trottier 180½ Rue St. Oliver, Quebec	¾ "	30	Mercadys & Son	Unknown.....	.....
" 19	"	37489	Emile Brousseau, 17 Rue Sutherland, Quebec.	¾ "	23	Unknown.....	.....	.....
" 19	"	37490	R. Cantin 326 Rue St. Oliver Quebec.	¾ "	18	Canadian Spice Mills.	Mfrs.....	.....
" 19	"	37491	Jos. Boiteau, 27 Rue Sutherland, Quebec.	¾ "	18	Unknown	Langlois & Paradis.	.....

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
Concluded.			
p. c.			
11·86	Pepper tissues and maize starch	37474	
9·62	" " " ...	37475	
6·54	Pepper tissues only	37476	
4·90	Pepper tissues and foreign stone cells in excess.	37477	Adulterated.
5·74	Pepper tissues and maize starch	37478	
14·04	" " "	37479	
5·70	Pepper tissues only ...	37480	
5·40	" "	37481	
7·52	" "	37482	"
5·16	Pepper tissues with a trace of maize starch	37483	
10·83	Pepper tissues, foreign tissues, starch and dirt.	37484	
9·62	Foreign tissues and maize starch....	37485	
5·68	Pepper tissues, wheat and maize starch...	37486	
4·46	Pepper tissues only	37487	
6·16	" "	37488	
6·22	Pepper tissues, wheat and maize starch..	37489	
4·92	Pepper tissues only.....	37490	
5·00	" "	37491	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF ST. HYACINTHE—								
1912								
Sept. 16	Ground B. Pepper	1433	J.B.A. Beauchemin, St. G. de Grantham.	1 lb.		24	L. Chaput fils & Cie., Montreal	
" 16	" ..	1434	O. Parenteau, St. Pie de Guire.	¾ "		15		
" 17	" ..	1435	Cartier & Cie., Abenakis Springs.	¾ "		17	Hudon, Hebert & Cie., Montreal.	
" 17	" ..	1436	L. Parenteau, Yamaska Est.	¾ "		15 Unknown	Unknown	
" 19	" ..	1437	H. Marchessault & fils, St. Ours	¾ "		18	Laporte, Martin Montreal.	
" 20	" ..	1438	Mde. J. Beauregard, St. Aime	¾ "		15 S. H. Ewing & Sons, Montreal.		
" 20	" ..	1439	P. P. Lanoie, St. Aime.	¾ "		20	L. Chaput fils & Cie., Montreal	
" 24	" ..	1440	A. E. D'Artois & fils, Farnham.	¾ "		15	J. E. Labelle & Cie., Montreal	
" 24	" ..	1441	A. Belle, St. Jean.	¾ "		15 Unknown	Unknown	
" 25	" ..	1442	Best Bros., Bedford.	¾ "		27 S. M. Ewing & Sons, Montreal.		
" 26	" ..	1443	W. A. O'Dell, Stanbridge Est.	¾ "		19 Unknown	Unknown	
" 26	" ..	1444	Copsey & Buchus, Frelisburg.	¾ "		19 White Swan S. & Co., Toronto		
" 26	" ..	1445	Buzzle Bros., Cowasville.	¾ "		23 Pure Gold Mfg. Co., Toronto.		
" 27	" ..	1446	O. L. Bibeau. Philipsburg.	¾ "		18	Hudon, Hebert et Cie., Montreal.	
Oct. 1	" ..	1447	W. B. Murray, Sherbrooke Est.	¾ "		20 Pure Gold Mfg. Co., Toronto.		
" 3	" ..	1448	G. Rolland, jr., Magog.	¾ "		23	Laporte, Martin, Montreal.	
" 8	" ..	1449	J. A. Fontaine, Valcourt Ely.	¾ "		15	L. Chaput fils & Cie., Montreal	Sold as Compound.
" 8	" ..	1450	J. H. Lussier, Racine Ely.	¾ "		19 Unknown	S. H. Ewing & Sons, Montreal	
" 14	" ..	1451	Adolph Gladue, St. Hyacinthe	¾ "		15	E. Lafrance, St. Hyacinthe.	
" 14	" ..	1452	J. Bonneau, St. Hyacinthe.	¾ "		21	E. Lafrance, St. Hyacinthe.	
DISTRICT OF MONTREAL—								
Sept. 10	Ground B Pepper.	50981	McFaul Bros., Lachute, P.Q.	¾ lb.		15 Pure Gold Co., Ltd.		
" 10	"	50982	A. Lavigne, Lachute, P.Q.	¾ "		13	L. Chaput fils & Co., Ltd., Montreal.	

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
J. C. ROULEAU, INSPECTOR.			
p. c.			
5·84	Pepper tissues only	1433	Genuine.
5·59	Pepper tissues and maize starch.	1434	Adulterated.
6·08	" " "	1435	"
6·46	" " "	1436	"
5·80	Pepper tissues only	1437	Genuine.
7·44	Pepper tissues and foreign stone cells in excess.	1438	Adulterated.
5·70	Pepper tissues only	1439	Genuine.
6·88	" "	1440	"
3·44	Pepper tissues, foreign stone cells with a little wheat starch.	1441	Adulterated.
10·44	Pepper tissues, foreign stone cells and wheat starch.	1442	"
6·42	Pepper tissues only	1443	Genuine.
4·02	" "	1444	"
4·96	" "	1445	"
6 16	Pepper tissues and maize starch	1446	Adulterated
5·80	Pepper tissues only	1447	Genuine.
5·28	" "	1448	"
6·36	Pepper tissues, foreign tissues, and foreign stone cells in excess.	1449	Compound.
8·36	Pepper tissues and foreign stone cells in excess.	1450	Adulterated.
14·68	Pepper tissues, wheat starch and dirt	1451	"
16·68	Pepper tissues, wheat and maize starch and dirt.	1452	"
J. J. COSTIGAN, INSPECTOR.			
4·82	Pepper tissues only	50981	Genuine.
5·20	" "	50982	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF MONTREAL
1912.								
Oct. 1	Ground B.Pepper	50983	A. W. Hugman, Ltd., 28 St. Paul st., Montreal.	1 lb	18	Vendor		
" 1	"	50984	A. Kouri, 31 Bonsecours st. Montreal.	1 "	15			
" 3	"	50985	J. E. Groulx 1051 Lahrier ave.W Outremont E.	1 "	30	S. H. Ewing & Son.		
" 3	"	50986	Limoges et Freres, 2,000 Hutchison st., Outremont E.	1 "	20			
" 3	"	50987	A. Gadbois, Hutchison and Viateur sts , Outremont E.	1 "	30	J. V. Boudrias, Montreal.		
" 3	"	50988	The Park Provision Co., 209 St. Viateur st. Montreal.	1 "	30	S. H. Ewing & Sons.		
" 3	"	50989	E. Pelland, 180 Fairmont ave. W., Montreal.	1 "	30			
" 4	"	50990	Frank D. Hall, St. Agathe des Monts.	¾ "	28			
" 4	"	50991	G. Coté, St. Agathe des Monts.	¾ "	30		L. Chaput fils & Cie., Ltd.	
" 7	"	50992	James Graham, 4151 St. Cath. st. Westmount	¾ "	30			
" 7	"	50993	Thos. L. Muir, 4500 St. Cath. st. Westmount	¾ "	30			
" 8	"	50994	R. Bernard, 91 Lagauchitiere st. E. Montreal.	¾ "	30	J. V. Boudrias, Ltd., Montreal.		
" 8	"	50995	S. Cohen, 90 Dorchester st. E., Montreal.	¾ "	25			
" 8	"	50996	S. Dionne, 140 Dorchester st. Montreal.	¾ "	30			
" 10	"	50997	Dechesnes & Picard, Joliette, P.Q.	¾ "	15			"Imperial" brand
" 10	"	50998	E. Dufour, Joliette, P. Q.	¾ "	15			
" 10	"	50999	J. A. Malo, Joliette, P.Q.	¾ "	15			
" 11	"	51000	Jos. Bonenfont, 428 Church av Verdun.	¾ "	27			

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
—*Concluded.*			
p. c.			
5·66	Pepper tissues only	50983	Genuine.
2·54	Pepper tissues and wheat starch	50984	Adulterated.
4·60	Pepper tissues	50985	Genuine.
6·20	Pepper tissues and maize starch	50986	Adulterated.
5·84	Pepper tissues only	50987	Genuine.
4·64	" "	50988	"
3·42	" "	50989	"
8·14	Pepper tissues and maize starch	50990	Adulterated.
6·02	Pepper tissues only	50991	Genuine.
4·00	" "	50992	"
7·40	Pepper tissues; wheat starch with a little maize starch.	50993	Adulterated.
5·58	Pepper tissues only	50994	Genuine.
18·20	Pepper tissues and dirt	50995	Adulterated.
5·60	Pepper tissues only	50996	Genuine.
5·58	" "	50997	"
7·46	Pepper tissues and maize starch	50998	Adulterated.
14·30	Pepper tissues, maize starch and dirt	50999	"
5·54	Pepper tissues, foreign tissues and maize starch.	51000	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF OTTAWA—								
1912.								
Aug. 30	Ground B. Pepper	50232	Cameron & Downing, Vankleek Hill	¾ lb.	19	.....	Ground for and furnished by Mathewson's Sons. Herron LeBlanc Ltd., Grinders.	"Jardine".....
Sept. 4	"	50233	S. Berger, 510 Bank St., Ottawa.	¾ "	30	Unknown.....	H. N. Bate &.. Sons, Ottawa.	.....
" 4	"	50234	Geo. Agar, Ottawa.	¾ "	30	"	H. N. Bate &.. Sons, Ottawa.	.....
" 4	"	50235	M. A. McCagg, Ottawa, Ont.	¾ "	30	"	F. J. Castle Co.,.. Ottawa.	.....
" 4	"	50236	Alex. Phillips, Ottawa, Ont.	¾ "	30	"	H. N. Bate &.. Sons, Ottawa.	.....
" 5	"	50237	J. B. Bedard, Hull, P.Q.	¾ "	30	"	F. J. Castle Co.... Ottawa.	.....
" 5	"	50238	J. E. Ryan & Co., Hull, P.Q	¾ "	30	"	Unknown.....	.....
" 5	"	50239	Jules Grattan, Hull, P.Q.	¾ "	30	.....	.....	.....
" 6	"	50240	Jas. McDougall, Brockville.	¾ "	30	J. M. Lowes, Ltd., Toronto.	Mfrs.....	.....
" 6	"	50241	F. H. Clifford, Brockville.	¾ "	30	Lister Pure Food Co., Toronto.	"	.....
" 6	"	50242	J. Culbert, Brockville.	¾ "	30	Unknown.....	Unknown.....	.....
" 6	"	50243	A. E. Shaver, Brockville.	¾ "	30	Pure Gold Mfg. Co., Toronto.	Mfrs.....	.....
" 7	"	50244	John Hughes, Prescott.	¾ "	30	J. M. Lowes Co., Toronto.	"	.....
" 7	"	50245	R. A. Scott & Co., Prescott.	¾ "	30	C. H. Cochrane, & Co., Ottawa	"	.....
" 11	"	50246	William Miller, Ottawa.	¾ "	30	Unknown.....	Unknown.....	.....
" 12	"	50247	Geo. H. Hall & Co., Ottawa.	¾ "	30	C. H. Cochrane, & Co., Ottawa	Mfrs.....	.....
" 16	"	50248	Thos. R. Davies Ottawa.	¾ "	30	Unknown.....	H. N. Bate &.. Sons, Ottawa.	.....
" 18	"	50249	W. Miskelly, Merrickville.	¾ "	20	Gorman Eckert, Montreal.	Mfrs.....	.....
" 18	"	50250	Wm. Cusick, Merrickville.	¾ "	30	Unknown.....	Unknown.....	.....
" 18	"	50251	John Kerr, Merrickville.	¾ "	20	"	Gilmour & Co.,.. Brockville.	.....
DISTRICT OF KINGSTON—								
Sept. 3	Ground B. Pepper.	50711	J. Gilbert, Kingston.	¾ lb.	19	.....	J. M. Lowes,.. Toronto.	.....
" 3	"	50712	J. E. Purdy, Kingston.	¾ "	19	.....	Hamilton Spice.. & Coffee Co., Hamilton.	.....
" 3	"	50713	H. T. Free, Kingston.	¾ "	13	.....	J. M. Lowes,.. Toronto.	.....

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
J. A. RICKEY, INSPECTOR.			
p. c.			
1·42	Pepper tissues and maize starch (White pepper).	50232	Adulterated.
8·86	Pepper tissues and foreign stone cells in excess.	50233	"
6·04	Pepper tissues only	50234	Genuine.
10·82	Pepper tissues and maize starch. . .	50235	Adulterated.
9·52	" " " . .	50236	"
10 00	Pepper tissues and foreign stone cells in excess.	50237	"
4 36	Pepper tissues only. .	50238	Genuine.
3 52	Pepper tissues and wheat starch.	50239	Adulterated.
5 62	Pepper tissues only . .	50240	Genuine.
4 94	" "	50241	"
4·40	" "	50242	"
1·10	" " (white pepper)	50243	"
4·60	" "	50244	"
5 04	" "	50245	"
4 80	" "	50246	"
4·74	" "	50247	"
4·24	Pepper tissues and foreign stone cells in excess..	50248	Adulterated.
5·00	Pepper tissues only . . .	50249	Genuine.
5·64	" "	50250	"
6·14	" " . .	50251	"
JAS. HOGAN, INSPECTOR.			
5·50	Pepper tissues only.....	50711	Genuine.
5·64	" "	50712	"
4·68	" "	50713	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF KINGSTON
1912.								
Sept. 3	Ground B Pepper.	50714	J. A. Percy, Kingston.	¾ lb	20		Geo. Robertson & Son, Kingston.	
" 3	"	50715	W. J. Arnil, Kingston.	¾ "	19		Robertson Nicoll Co., Kingston.	
" 4	"	50716	H. A. Stover, Kingston.	¾ "	23		A. Maclean, Kingston.	
" 4	"	50717	W. J. Lee, Kingston.	¾ "	23		W. G. Craig Co. Kingston.	
" 4	"	50718	P. A. Happner, Kingston.	¾ "	23		J. M. Lowes, Toronto.	
" 4	"	50719	J. Cullen, Kingston.	¾ "	23		A. Maclean, Kingston.	
" 9	"	50720	R. Elvins, Belleville.	¾ "	18		Dalton Bros. Toronto.	
" 9	"	50721	J. B. Harker, Belleville.	¾ "	22			
" 9	"	50722	J. Panter & Son, Belleville.	¾ "	22		White Swan Co., Toronto.	
" 9	"	50723	George Boyle, Belleville.	¾ "	18		F. F. Dalley, Co., Hamilton	
" 9	"	50724	J. H. P. Young, Belleville.	¾ "	22		Pure Gold Co., Toronto.	
" 10	"	50725	T. McIntosh, Cobourg.	¾ "	18		Todhunter & Mitchell, Toronto.	
" 10	"	50726	W. P. Platt, Cobourg.	¾ "	23		Todhunter & Mitchell, Toronto.	
" 10	"	50727	E. Guillet, Cobourg.	¾ "	23		W. H. Ewing Co., Montreal.	
" 10	"	50728	F. Rosevear Port Hope.	¾ "	19		F. F. Dalley Co. Hamilton.	
" 10	"	50729	F. H. Brown, Port Hope.	¾ "	23	Unknown	Unknown	
" 11	"	50730	W. J. Roulty, Peterboro.	¾ "	30		White Swan Co., Toronto.	
								DISTRICT OF TORONTO—
Sept. 13	Ground B. Pepper	51421	J. C. Williams, 744 Gerrard St. East, Toronto.	¾ lb.	30		Unknown	
" 13	"	51422	F. Colello, 1062 Gerrard st. East, Toronto	¾ "	25		"	
" 13	"	51423	Prowse's Cash Grocery, 61 Bellevue Ave., Toronto.	¾ "	30		Dalton Bros. Toronto.	
" 31	"	51424	Jas. Faragher, Dennison & Carr sts., Toronto.	¾ "	20		Todhunter, Mitchell & Co., Toronto.	

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
—*Concluded.*			
p. c.			
5·62	Pepper tissues only	50711	Genuine.
4·68	" "	50715	"
5·96	" "	50716	"
6·86	" "	50717	"
5·54	" "	50718	"
5·28	" "	50719	"
8·72	" "	50720	Excess mineral matter. Doubtful.
9·14	Pepper tissues and dirt.	50721	Adulterated.
7·96	Pepper tissues only.	50722	Excess mineral matter. Doubtful.
4·66	" "	50723	Genuine.
4·32	" "	50724	"
5·02	" "	50725	"
4·84	" "	50726	"
3·70	" "	50727	"
5·42	" "	50728	"
4·82	" "	50729	"
4·86	" "	50730	"

H. J. DAGER, INSPECTOR.

5·50	Pepper tissues only...	51421	Genuine.
5·74	" "	51422	"
4·34	Pepper tissues and foreign stone cells in excess.	51423	Adulterated.
5·56	Pepper tissues only....	51424	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.
								DISTRICT OF TORONTO
1912.								
Sept. 16	Ground B. Pepper.	51425	W. J. Fletcher, 74 Bathhrst st Toronto.	¾ lb	20		Unknown	
" 16	"	51426	W. Bottomley 834 King st. West, Toronto	¾ "	23		R. B. Hayhoe & Co., Toronto.	
" 16	"	51427	R. Hawkhisstone, 858 Dovercourt Road, Toronto.	¾ "	19		Todhunter, Mitchell & & Co., Toronto.	
" 17	"	51428	H. F. Hall, 48 Geary Ave., Toronto.	¾ "	23		Unknown	
" 17	"	51429	J. D. Tripp, 1504 Queen St. West, Toronto	¾ "	30		Todhunter, Mitchell & Co., Toronto.	
" 17	"	51430	J. D. Ward, 1284 Queen St. West Toronto.	¾ "	30		Pure Gold Mfg. Co., Ltd., Toronto.	
" 20	"	51431	W. A. M. Cody, Newmarket.	¾ "	23		Unknown	
" 23	"	51432	McDonald Bros. 1064 Yonge St. Toronto.	¾ "	30		Pure Gold Mfg. Co., Ltd., Toronto.	
Oct. 1	"	51433	Smithson & Craven, Burlington.	¾ "	25		Unknown	
" 1	"	51434	A. Broad, Dundas.	¾ "	22		"	
" 2	"	51435	A. E. Virtue, 33 East Ave., North Hamilton.	¾ "	30		"	
" 2	"	51436	J. L. Benson, King William St., Hamilton	¾ "	23		Imperial Cocoa & Spice Co., Ltd., Hamilton, Ont.	
" 2	"	51437	Jacob Vanstor, 797 Barton St. East, Hamilton.	¾ "	30		Unknown	
" 2	"	51438	H. J. Vaughen, King & Lockie Sts., Hamilton.	¾ "	25		F. F. Dalley & Co., Ltd., Hamilton.	
" 3	"	51439	C. Oliver, 61 York St., Hamilton.	¾ "	27		Young & Windfield, Hamilton.	
" 3	"	51440	M. Van Every, Bay and Cannon Sts., Hamilton.	¾ "	23		Young & Windfield, Hamilton.	

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
Concluded.			
p. c.			
4·80	Pepper tissues only.	51125	Genuine
5·30	" "	51126	"
5·00	"	51427	"
5·00	"	51428	"
4·90	"	51429	"
4·96	"	51130	"
4·48	Pepper tissues and foreign stone cells in excess.	51431	Adulterated.
5·08	Pepper tissues only	51132	Genuine.
6·10	" "	51433	"
5·94	" "	51434	"
5·00	" "	51435	"
6·28	Pepper tissues and foreign stone cells in excess.	51436	Adulterated.
4·56	Pepper tissues only	51437	Genuine.
5·70	" "	51438	"
5·70	" "	51439	"
5·80	" "	51440	"

4 GEORGE V., A. 1914

BULLETIN No. 248—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF WINDSOR—								
1912.								
Sept. 19	Ground B. Pepper.	48101	R. Baker, London East	¾ lb.	30	.....	I. X. L. Spice & Coffee Co., London.	'Sweetheart' Brand.
" 19	"	48103	G. H. Mennill, London, E.	¾ "	23	.....	"	"
" 19	"	48105	Chas. Depper, London E.	¾ "	17	.....	Gorman Eckert Co., London.	'Tellicherry' Brand.
" 20	"	48107	S. M. Fleet, Ingersoll.	¾ "	30	.....	F. F. Dalley, Hamilton.	Labelled Pure Sing. Black Pepper.
" 20	"	48109	P. J. Sherry, Ingersoll.	¾ "	23	E. Adams & Co. London.	.....	Labelled Pure Black Pepper.
" 20	"	48111	M. W. Healey, Ingersoll.	¾ "	23	.....	I. W. L. Spice & Coffee Co., London.	'Sweetheart' Brand.
" 20	"	48114	Chns. M. Crawford, Ingersoll.	¾ "	23	Imperial Cocoa & Spice Co., Ltd., Hamilton, Ont.	.....	'Red Feather' Brand.
				¾ "	19			
" 20	"	48115	Buchanan Bros., Ingersoll.	¾ "	23	.....	Gorman Eckert Co., London.	'Forest City, Pure Spices.
" 20	"	48118	Robt. Stewart, Ingersoll.	¾ "	30	.....	F. F. Dalley Co. Hamilton.	Labelled Dalley's Pure Tellicherry Pepper.
" 20	"	48120	McLeod & McBain, Ingersoll.	¾ "	23	.....	Gorman Eckert, London, Ont.	.....
" 20	"	48121	W. I. Hogarth, Ingersoll.	¾ "	20	.....	White Swan S. & C. Co., Toronto.	'White Swan' Brand, Pure Ground Black Pepper.
" 21	"	48123	C. W. Reynolds, Pottersburg.	¾ "	30	.....	Gorman Eckert, & Co., London.	.....
" 5	"	48277	E. R. Newmans London.	¾ "	30	E. Adams & Co.	.....	.....
" 5	"	48279	Thos. Shaw, London.	¾ "	30	.....	I. X. L. Spice & Coffee Co., London.	PureSelectBlack Pepper.
" 12	"	48289	White & Co., Woodstock, Ont.	¾ "	30	.....	Gorman Eckert, & Co. London.	'Forest City' Pure Spices.
" 12	"	48291	Wm. Pullen, Woodstock, Ont.	¾ "	30	.....	Unknown.....	.....
" 12	"	48292	Lewis & Son, Woodstock, Ont.	¾ "	23	.....	Gorman Eckert, Co., London.	'Crest' Brand.
" 19	"	48294	W. A. Munn, St. Thomas.	¾ "	22	.....	"	.....
" 19	"	48297	Ideal Co.-op. Association, St. Thomas.	¾ "	23	.....	I. X. L. Spice & Coffee Co., London.	'Sweetheart' Brand, Pure Select Spices.
" 19	"	48300	Moylan & Moylan, St. Thomas.			.....	"	'Sweetheart' Brand.

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
JNO. TALBOT, INSPECTOR.			
p. c.			
5·22	Pepper tissues only..	48101	Genuine.
5·22	" "	48103	"
4·10	" "	48105	"
5·68	" "	48107	"
8·64	" "	48109	Mineral matter in excess. Doubtful.
6·18	" "	48111	Genuine.
5·96	Pepper tissues and foreign stone cells in excess	48114	Adulterated.
8·20	Pepper tissues and dirt.	48115	Excess mineral matter. Doubtful.
5·02	Pepper tissues only	48118	Genuine.
5·00	" "	48120	"
7·64	" "	48121	"
7·56	" "	48123	"
6·04	" "	48277	"
4·32	" "	48279	"
4·92	" "	48289	"
11·82	Pepper tissues, foreign tissues and dirt.	48291	Adulterated.
4·96	Pepper tissues only.	48292	Genuine.
5·44	" "	48294	"
5·54	" "	48297	"
6·64	" "	48300	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF MANITOBA—								
1912.								
Sept. 19	Ground B. Pepper.	48656	M. Shiner, Emerson.	¾ lb.	30	.....	.....	.....
" 19	"	48657	C. A. Whitman, Emerson.	¾ "	20	Unknown.....	Unknown.....	.....
" 20	"	48658	Campbell Bros., Wilson, Winnipeg.	¾ "	....	Vendors.....	.....	.....
" 20	"	48659	The Dyson Co., Winnipeg.	¾ "	....	"	.....	.....
" 20	"	48660	The White Star Mfg. Co., Winnipeg.	¾ "	....	"	.....	.....
" 20	"	48661	The Gold Standard Mfg. Co., Winnipeg.	¾ "	....	"	.....	.....
" 23	"	48662	P. Nelson, Winnipeg.	¾ "	30	.....	.....	.....
" 23	"	48663	W. H. Morgan, Winnipeg.	¾ "	30	.....	The Codville Co Winnipeg.	.....
" 23	"	48664	Western Mercantile Co., Winnipeg.	¾ "	30	.....	.....	.....
" 24	"	48665	P.J.Foley & Co., Stonewall.	¾ "	30	.....	The Jobin Marrin Co., Ltd., Winnipeg.	.....
" 24	"	48666	G. Montgomery & Co., Stonewall.	¾ "	30	.....	.....	.....
" 24	"	48667	I. Genser, Stonewall.	¾ "	30	.....	Mason & Hickey Winnipeg.	.....
" 25	"	48668	C. Finkleman, Selkirk.	¾ "	25	.....	.....	.....
" 25	"	48669	W. Robinson & Co., Selkirk.	¾ "	30	.....	.....	.....
" 25	"	48670	Shepard Peers Co., Selkirk.	¾ "	30	.....	.....	.....
" 26	"	48671	I. Turkletop, Beausejours, Man.	¾ "	20	.....	.....	.....
Oct. 1	"	48672	D. G. Macdonald, Portage la Prairie.	¾ "	30	.....	Jobin Marrin Co Winnipeg.	.....
" 1	"	48673	O'Rielly & Co., Portage la Prairie.	¾ "	30	.....	.....	.....
" 2	"	48674	Smith & Burton Brandon.	¾ "	35	.....	.....	.....
" 3	"	48675	Brebber & Tillup, Oak Lake	¾ "	30	.....	Campbell Bros. & Wilson, Winnipeg.	.....

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
	A. C. LARIVIERE, INSPECTOR.		
p. c.			
4·12	Pepper tissues and foreign stone cells in excess.	48656	Adulterated.
5·36	Pepper tissues only	48657	Genuine.
6·00	" "	48658	"
5·38	" "	48659	"
5·24	" "	48660	"
6·84	" "	48661	"
4·84	" "	48662	"
5·26	" "	48663	"
4·66	" "	48664	"
4·12	" "	48665	"
4·38	" "	48666	"
5·14	" "	48667	"
4·76	" "	48668	"
4·82	" "	48669	"
5·94	" "	48670	"
18·46	Pepper tissues, dirt and foreign stone cells in excess.	48671	Adulterated.
4·62	Pepper tissues only	48672	Genuine.
5·30	" "	48673	"
4·62	" "	48674	"
5·56	" "	48675	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF NELSON—
1912								
Sept. 3	Ground B. Pepper	49687	Union Cash Grocery, Nelson, B.C.	¾ lb..	30	Empress Mfg. Co., Vancouver.	.....	.....
" 3	" ..	49689	Bell Trading Co. Nelson, B.C.	¾ "	30	Wm. Braid & Co., Vancouver.	.....	.....
" 6	" ..	49701	G.B. Armstrong Merritt, B.C.	¾ " ..	30	Kelly, Douglas Co., Vancouver.	.....	.....
" 9	" ..	49719	L. C. Masson, Revelstoke.	¾ " ..	30	Oriental Mills, Vancouver.	.....	.....
" 9	" ..	49724	Bourne Bros., Revelstoke.	¾ " ..	30	W. H. Malkin & Co., Vancouver.	.....	.....
" 9	" ..	49731	B. B. Camozzi, Revelstoke.	¾ " ..	30	W. H. Malkin & Co., Vancouver.	.....	.....
" 9	" ..	49733	D. Gallicano, Revelstoke.	¾ " ..	30	Kelly Douglas Co., Vancouver.	.....	.....
" 10	" ..	49736	C. B. Hume & Co., Revelstoke.	¾ " ..	30	Empress Mfg. Co., Vancouver.	.....	.....
" 10	" ..	49741	J. Guilletto, Revelstoke.	¾ " ..	30	Kelly Douglas Co., Vancouver.	.....	.....
" 23	" ..	49745	C. A. Warren, Golden, B.C.	¾ " ..	30	W. H. Malkin & Co., Vancouver.	.....	.....
" 23	" ..	49752	H. G. Parson Ltd Golden, B.C.	¾ " ..	25	Kelly Douglas Co., Vancouver.	.....	.....
" 23	" ..	49759	C. R. Lumber Co., Golden, B.C.	¾ " ..	30	W. Braid & Co., Vancouver.	.....	.....
" 23	" ..	49765	Rolston & Mitchell, Golden, B.C.	3 tins.	30	Campbell Bros. Wilson, Winnipeg.	.....	.....
" 24	" ..	49768	Field Trading Co., Field, B.C.	¾ lb..	30	.....	Campbell, Wilson & Horne, Calgary.	.....
" 25	" ..	49771	C. B. Hume & Co., Arrowhead, B.C.	¾ " ..	30	Empress Mfg. Co., Vancouver.	.....	.....
" 25	" ..	49776	Reid & Young, Arrowhead, B.C.	¾ " ..	30	Kelly Douglas Co., Vancouver.	.....	.....
Oct. 1	" ..	49785	Citizens Co-op. Association, Nelson, B.C.	¾ " ..	30	Empress Mfg. Co., Vancouver.	.....	.....
" 1	" ..	49788	I. A. Irving, Nelson, B.C.	¾ " ..	30	Empress Mfg. Co., Vancouver.	.....	.....
" 1	" ..	49789	Hudsons Bay Co., Nelson, B.C.	¾ " ..	30	Vendors.....	.....	.....
" 1	" ..	49792	Christie & Benson, Nelson, B.C.	3 tins.	40	Empress Mfg. Co., Vancouver.	.....	.....

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
THOS. PARKER, INSPECTOR.			
p. c.			
3·64	Pepper tissues only	49687	Genuine.
5·18	" "	49689	"
4·90	" "	49701	"
8·02	" "	49719	Excess mineral matter, Doubtful.
4·00	" "	49724	Genuine.
4·08	" "	49731	"
4·90	" "	49733	"
6·00	" "	49736	"
7·28	Pepper tissues and foreign stone cells in excess.	49741	Adulterated.
4·32	Pepper tissues only	49745	Genuine.
5·40	" "	49752	"
5·42	" "	49759	"
5·60	" "	49765	"
7·70	" "	49768	"
5·86	" "	49771	"
4·78	" "	49776	"
3·16	" "	49785	"
4·58	" "	49788	"
6·40	" "	49789	"
5·28	" "	49792	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression) of opinion.)
								DISTRICT OF VANCOUVER—
1912.								
Sept. 16	Ground B. Pepper	38379	Pioneer Grocery Smythe & Richards Sts., Vancouver, B.C.	¾ lb...	30	Wm. Braid & Co., Vancouver.	.....	.....
" 16	"	38380	Walford & Roney, Granville St., Vancouver, B.C.	¾ " .	30	Wm. Braid & Co., Vancouver.	.....	.....
" 16	"	38381	R. Shilling, Seymour & Helmken Sts., Vancouver. B.C.	¾ " .	25	Empress Mfg... Co., Vancouver.	.....	.....
" 16	"	38382	W. H. Walsh Co. Ltd., Seymour & Davie Sts., Vancouver, B.C.	¾ " .	30	Wm. Braid & Co., Vancouver.	.....	.....
" 16	"	38383	Halpins Grocery 1169 Granville St., Vancouver., B.C.	3 tins.	30	Empress Mfg. Co., Vancouver.	.....	.....
" 16	"	38384	Vancouver Grocery, Nelson & Granville Sts., Vancouver, B.C.	¾ lb...	30	Empress Mfg. Co., Vancouver	.....	.....
" 17	"	38385	A. C. Bartig, 8th Ave., & Granville St., Vancouver, B.C.	¾ " .	30	Kelly Douglas, Vancouver.	.....	.....
" 17	"	38386	A. MacFarlane, 1469 Broadway W., Vancouver, B.C.	¾ " .	30	Kelly Douglas, Vancouver.	.....	.....
" 17	"	38387	White Thompson Co., South Granville St., Vancouver, B.C.	¾ " .	30	Empress Mfg. Co., Vancouver.	.....	.....
" 17	"	38388	London Grocery Co., 6th Ave., & Granville St., Vancouver, B.C	¾ " .	30	Kelly Douglas, & Co., Vancouver.	.....	.....
" 17	"	38389	Grouchy & Carlaw, 5th Ave. & Granville St., Vancouver, B.C.	¾ " .	30	Empress Mfg. Co., Vancouver.	.....	.....
" 17	"	38390	Turners Grocery Pender & Horby Sts., Vancouver, B.C.	¾ " .	25	Kelly Douglas & Co., Vancouver.	.....	.....
" 17	"	38391	A. & C. Grocery 909 Georgia St., Vancouver.	¾ " .	30	Kelly Douglas & Co., Vancouver.	.....	.....

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
J. F. POWER, INSPECTOR.			
p. c.			
5·01	Pepper tissues only	38379	Genuine.
5·00	" "	38380	"
6·44	" "	38381	"
4·48	" "	38382	"
5·70	" "	38383	"
6·22	" "	38384	"
5·24	" "	38385	"
4·70	" "	38386	"
5·42	" "	38387	"
4·76	" "	38388	"
5·00	" "	38389	"
4·10	" "	38390	"
4·76	" "	38391	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF VANCOUVER		
1912.								
Sept. 17	Ground B. Pepper	38392	McTaggart & Co., Robson & Granville Sts., Vancouver, B.C.	¾ lb.	30	Kelly Douglas & Co., Vancouver.	.....	.....
" 17	"	38393	Hudsons Bay Co., Vancouver. B.C.	¾ "	30	Wm. Braid & Co., Vancouver.	.....	.....
" 17	"	38394	Mills & McAdam, 2039 4th Ave. W., Vancouver, B.C.	¾ "	30	Unknown.....	Hudsons Bay Co,. Vancouver.	.....
" 17	"	38395	J. S. Hirst, 1944 Maple St., Vancouver.	3 tins.	30	W. H. Malkin & Co., Vancouver.	.....	"VictoriaCross" Brand spices are absolutely pure.
" 17	"	38396	Cook Bros., 1619 4th Ave., W., Vancouver, B.C.	¾ lb...	25	W. H. Malkin & Co., Vancouver.	.....	.....
" 17	"	38397	David Spencer, Ltd., Vancouver.	¾ "	30	Kelly Douglas & Co., Vancouver.	.....	.....
" 17	"	38398	H. A. Edgett Co., Ltd., Vancouver, B.C.	¾ "	30	Wm. Braid & Co., Vancouver.	.....	.....
						DISTRICT OF VICTORIA—		
Oct. 17	Ground B. Pepper	49201	H. O. Kirkham, 714 Front St., Victoria, B.C.	¾ lb.	30	.....	Kelly Douglas & Co. Ltd., Vancouver B.C.	.....
" 17	"	49202	A. Hendry, 2001 Fernwood Rd. Victoria, B.C.	¾ "	25	.....	S. Leiser & Co., Victoria, B.C.	.....
" 17	"	49203	J. Renouf, Gladstone & Stanley Ave., Victoria, B.C.	¾ "	25	.....	Empress Mfg. Co., Vancouver, B.C.	.....
" 17	"	49204	E. B. Jones, 1800 Cook St., Victoria, B.C.	¾ "	30	.....	Kelly Douglas Co. Ltd., Vancouver, B.C.	.....
" 18	"	49205	Chas. Richards, Cook & Mears Sts., Victoria, B.C.	¾ "	25	.....	Pioneer Coffee & Spice Mills Victoria, B.C.	.....
" 18	"	49206	Linden Grocery Co., Linden Ave. & May St., Victoria, B.C.	¾ "	30	.....	Empress Mfg. Co., Vancouver, B.C.	.....

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
— *Concluded.*			
p. c.			
4·62	Pepper tissues only	38392	Genuine.
4·22	" "	38393	"
6·62	" "	38394	"
4·54	" "	38395	"
5·08	" "	38396	"
4·40	" "	38397	"
3·68	" "	38398	"

D. O'SULLIVAN, INSPECTOR.

4·60	Pepper tissues only	49201	Genuine.
6·08	" "	49202	"
3·92	" "	49203	"
4·48	" "	49204	"
5·00	" "	49205	"
5·00	" "	49206	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF VICTORIA
1912.								
Sept. 17	Ground B. Pepper.	49207	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	¾ lb	15	Vendors		
" 10	"	49208	Windsor Grocery Co., 1817 Government St., Victoria, B.C.	¾ "	40		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 11	"	49209	The West End Grocery Co. Ltd., 1009 Gov't. St., Victoria, B.C.	¾ "	30		Wm. Braid & Co., Vancouver, B.C.	
" 12	"	49210	Copas & Young, 631 Fort St., Victoria, B.C.	¾ "	20		"	
" 16	"	49211	Acton Bros., 1317 Douglas St., Victoria, B.C.	¾ "	30		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 16	"	49212	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	¾ "	30		"	
" 18	"	49213	D. H. Ross & Co., 1317 Gov't. St., Victoria, B.C.	¾ "	30		Wm. Braid & Co., Vancouver, B.C.	
" 19	"	49214	Harrison & McDonald, 1218 Douglas St.,	¾ "	30		Empress Mfg. Co., Vancouver, B.C.	
" 20	"	49215	F. E. Plummer, 1118 Quadra St., Victoria B.C.	¾ "	25		Pioneer Coffee & Spice Mills, Victoria, B.C.	
" 24	"	49216	E. G. Bailey, 758 Fort St., Victoria, B.C.	¾ "	40		Empress Mfg. Co., Vancouver, B.C.	
" 25	"	49217	Erskine & Co., 861 Johnston St., Victoria, B.C.	¾ "	30		R. P. Rithet & Co., Victoria, B.C.	
Oct. 15	"	49238	Henry W. Driver, 856 Yates St., Victoria, B.C.	¾ "	25		W. A. Jameson Coffee Co., Victoria, B.C.	
" 15	"	49239	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B.C.	¾ "	30		Dunn & Co., Hamilton, Ont.	
" 17	"	49240	H. Smith, View St., Victoria, B. C.	¾ "	30		Pioneer Coffee & Spice Mills, Victoria, B.C.	

SESSIONAL PAPER No. 14

GROUND BLACK PEPPER.

Results of Analysis.		No. of Sample.	Remarks, and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.		
—*Concluded.*			
p. c.			
5·12	Pepper tissues only	49207	Genuine.
5·10	" "	49208	"
5·26	" "	49209	"
5·04	" "	49210	"
5·34	" "	49211	"
5·36	" "	49212	"
4·70	" "	49213	"
8·22	" "	49214	Excess mineral matter. Doubtful.
3·16	" "	49215	Genuine.
5·66	" "	49216	"
2·52	" "	49217	"
4·72	" "	49238	"
6·40	" "	49239	"
5·74	" "	49240	"

APPENDIX M.

BULLETIN No. 249—BOTTLED PICKLES.

Ottawa, February 19, 1913.

Wm. Himsworth, Esq.,
Acting Deputy Minister of Inland Revenue.

Sir,—I beg to send you herewith a report upon eighty (80) samples of Bottled Pickles, purchased by the inspectors of this Department in April and May of last year. The last report upon Pickles was published as Bulletin No. 163, in September, 1908.

Pickles are, as a rule, very carefully prepared, and we have no reason to believe that any ground for complaint exists in their regard.

Mouldiness was found in four samples of the present collection. This is not, apparently, due to the use of imperfect fruit or vegetables in their preparation, but rather to the employment of too weak a vinegar; vinegar containing 2½ p. c. of Acetic Acid, or more, appears to be best suited to use in bottled Pickles, so far as our experience goes.

Fourteen samples give evidence of the employment of Acetic Acid having its origin in a distillation process in their manufacture. The vinegar in admixture with which the pickles are sold, must meet the standards legalized for vinegar under the Adulteration Act.

Sixteen samples exhibit traces of Alum, but only one sample contains any notable amount. Alum is extensively used for the purpose of keeping the vegetables hard and firm. It has not been established that the minute quantities of Alum necessary for this purpose are, in any degree, harmful to human health. This may be due to the fact that Pickles are consumed in small quantity only, and as a condiment rather than for food purposes.

It is probable that sound vegetables can be kept in a desirable state of firmness by the use of Vinegar only, provided that the Vinegar is sufficiently strong.

I beg to recommend publication of this report as Bulletin No. 249.

I have the honour to be, Sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
						DISTRICT OF NOVA SCOTIA--	
1912.							
April 25	Bottled Pickles.	47056	Wm. Moore, Halifax, N.S.	3 bots.	60	White & Co., London, Eng.	Maconochie Bros., London, Eng.
" 26	" ..	47057	John Tobin & Co., Halifax, N.S.	"	60	Heintz & Co., Leamington, Ont.	Manufacturers....
" 26	" ..	47058	Wentzells, Ltd., Halifax, N.S.	"	75	Maconochie Bros., London, Eng.	" ....
" 26	" ..	47059	A. & W. Smith & Co., Halifax, N.S.	"	35	Lea's, Ltd., Simcoe, Ont.	" ....
" 26	" ..	47060	The Moulton Tracey Mfg. Co., Halifax, N.S.	"	35	Vendors.....	....
						DISTRICT OF PRINCE EDWARD ISLAND—	
May 21	Bottled Pickles.	46211	Stewart & Son, Charlottetown, P.E I.	3 bots.	90	Cross & Blackwell, Soho, London.	....
" 21	" ..	46212	Beer & Goff, Charlottetown, P.E.I.	"	66	Chas. Heaton & Co., West Ferry Road, London, Eng.	....
" 21	" ..	46213	B. F. Maddigan & Co., Charlottetown, P.EI.	"	60	Matthews, London, Eng.	....
" 21	" ..	46214	John McKenna, Charlottetown, P.E.I.	"	36	Jno. Stephens, Sons & Co., Gloucester, Eng.	... .
" 21	" ..	46215	J. P. Duffy, Charlottetown, P.E.I.	"	60	White & Co., London, Eng.	. .....
						DISTRICT OF NEW BRUNSWICK—	
April 15	Bottled Pickles.	45650	W. A. Fairweather Co., Ltd., St. John, N.B.	3 bots.	45	Vendors	....
May 12	" ..	45651	Yerxa Grocery Co., Fredericton, N.B.	"	57	....	A. T. Randolph & Son, Fredericton
April 26	" ..	45652	F. E. Rose, St. Stephen, N.B.	"	75	Lea Pickling & P. Co., Ltd., Simcoe, Ont.	....
May 6	" ..	45653	Geo. T. Baird Co., Ltd., Perth, N.B.	"	54	Jno. Stevens & Co., Ltd., Gloucester, Eng.	.....
" 10	" ..	45654	2 Barkers, Ltd., Moncton, N.B.	"	30	Rowat & Co., Glasgow.	.....
						DISTRICT OF QUEBEC—	
April 24	Bottled Pickles.	37428	Emile Emond, 32 Rue Laliberte, Quebec.	3 bots.	45	Lytle, Toronto.	J. B. Reneaud & Cie.
" 25	" ..	37429	Jos. Boutin, 40 Rue de L. Eglise, Quebec.	"	30	Rowat & Co., Glasgow.	Bedard et Frere...
" 25	" ..	37430	Narcisse Lamontagne, 143 Rue Fleury, Quebec.	"	51	Lytle, Toronto	J. B. Reneaud et Cie.
" 25	" ..	37431	J. E. Marand, 406 Rue St. Valier, Quebec.	"	45	"	" ..
" 25	" ..	37432	J. F. Goslin, 50 Rue D'Orchester, Quebec.	"	54	Imperial Pickles, Glasgow.	Barbeau & Godbout.

SESSIONAL PAPER No. 14

BOTTLED PICKLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_4O_2$	Formic Acid.		
R. J. WAUGH, INSPECTOR.						
			p. c.			
Sold as mixed.....	Sound and Firm	None	3·01	Trace.	47056	
"	"	"	2·96	None	47057	
"	"	"	4·75	"	47058	
Sold as sour.....	"	Light trace.	2·46	0·023% present.	47059	Acetic Acid used.
Picadilli	"	None	1·83	None ..	47060	
WM. A. WEEKS, INSPECTOR.						
.....	Sound and Firm	None	3·42	0·042 present	46211	Acetic Acid used.
.....	"	"	2·82	0·020 present.	46212	"
.....	"	"	2·46	None	46213	
.....	"	"	3·10	"	46214	
.....	"	Light trace.	4·17	0·037 present.	46215	Acetic Acid used.
J. C. FERGUSON, INSPECTOR.						
.....	Sound and Firm..	None	1·49	None.	45650	
Heaton's Pickles	"	"	3·43	0·019% present.	45651	Acetic Acid used.
.....	"	"	1·50	None	45652	
.....	"	"	2·76	0·018 present.	45653	Acetic Acid used.
.....	"	"	1·60	None..	45654	
F. X. W. E. BELAND, INSPECTOR.						
.....	Sound and Firm..	None..	1·86	None.	37428	
.....	"	"	3·14	"	37429	
.....	"	"	2·22	"	37430	
.....	"	Light trace.	2·42	"	37431	
.....	"	Heavy trace.	3·19	"	37432	Alum used.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF ST. HYACINTHE—				
1912.							
April 17	Bottled Pickles.	38987	Hector Cyr, Granby	3 jars.	39	Rowat & Co., Glasgow and Liverpool.	
" 3	"	38988	Fred J. Terrill, Melbourne.	3 "	75	The T. A. Lytle Co., Toronto.	
May 1	"	38989	A. Cardin, Actonvale	3 "	45	Maconochie Bros., Ltd., London, Eng.	
" 3	"	38990	G. Girouard, Victoriaville.	3 "	45	H. J. Heintz Co.	
" 6	"	38991	H. Messier, St. Hyacinthe.	3 "	30	Bastian Pickle Co., Montreal.	
			DISTRICT OF MONTREAL—				
April 17	Bottled Pickles.	39995	R. Jacobson, 312 St. Dominique st., Montreal.	3 bots	30	Bastian Pickle Works	
" 17	"	39996	Aubin & Co., St. Lawrence mkt., Montreal	3 "	40	H. Bourque & Son, Montreal.	
" 19	"	39997	S. L. Desaulniers, 137 N. D. st. west, Montreal.	3 "	75	Taylor & Pringle Co., Ltd , Owen Sound.	
" 19	"	39998	"	3 "	30	L. Lemeteys, Montreal.	
" 19	"	39999	J. T. Tracey, 137 McGill st., Montreal.	3 "	75	S. Chivers & Co., Ltd., Cardiff.	
			DISTRICT OF OTTAWA—				
April 25	Bottled Pickles.	51606	F. H. Gilchrist, Ottawa.	3 bots.	30	Canadian Pickling Co., Toronto.	T. A. Lytle Co. Toronto.
" 25	"	51607	F. A. Reade, Ottawa	3 "	30	Rowat & Co., Glasgow.	F. J. Castle Co., Ottawa.
" 25	"	51608	H. Richardson, Ottawa	3 "	75	C. & E. Morton, England.	Unknown
" 25	"	51609	J. H. Lacasse, Ottawa.	3 "	30	Purnell & Panter, Bristol, Eng.	Jos. Grant, Ottawa.
" 25	"	51610	W. A. Ferris, Ottawa	3 "	75	Jno. Stephens, Son & Co., Ltd., Gloucester, Eng.	F. J. Castle Co., Ottawa.
			DISTRICT OF KINGSTON—				
April 15	Bottled Pickles.	49565	Albert Powers, Picton.	3 bots.	30	Wm. Davies, Toronto	
" 16	"	49566	Hooey & Sons, Cobourg.	3 "	45	Lea's, Simcoe	
" 16	"	49567	John Curtis, Port Hope	3 "	30	C. Gildner & Co., Toronto.	
" 17	"	49568	J. R. Bell, Peterboro	3 "	30	Stephens, Gloucester, Eng.	
" 17	"	49569	Dutton & Co., Peterboro.	3 "	54	T. A. Lytle Co., Toronto.	

SESSIONAL PAPER No. 14

BOTTLED PICKLES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_4O_2$	Formic Acid.		
J. C. ROULEAU, INSPECTOR.						
			p.c.			
...	Sound and Firm.	Light trace.	2 73	None ..	38987	
..	" ..	None	1 40	"	38988	
....	"	"	2 60	"	38989	
. . ..	"	" .	1·40	" ..	38990	
. ...	Mouldy .	Light trace.	0 21	.	38991	Very low acidity. Mouldy
J. J. COSTIGAN, INSPECTOR.						
"Maple Leaf". .	Mouldy	None	0 51	None .	39995	Very low acidity. Mouldy.
.. ..	Sound and Firm..	" . .	2 40	. .	39996	
. . ..		Light trace.	3 11	. .	39997	
.. . .	. ..	None .	2 92	" .	39998	
. ..	" ..	"	3 61	"	39999	
J. A. RICKEY, INSPECTOR.						
... .	Sound and Firm	None .	1 76	None	51606	
. ...	. .	" ...	3 80	" .	51607	
....	. .	" ...	3 72	"	51608	
....	"	"	2·69	"	51609	
....	" .	Light trace.	3 02	0 014% present	51610	Acetic acid used.
JAS. HOGAN, INSPECTOR.						
.....	Sound and Firm	None	2 13	None	49565	
... .	"	"	2·82	0 011 present	49566	Acetic acid used.
... .	" ..	" . .	3·60	None .	49567	
....	.	Light trace.	3 60	0 017 present	495 8	Acetic acid used.
... ...	" ..	None .	....	None ..	49569	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
						DISTRICT OF TORONTO—	
1912.							
April 18	Bottled Pickles.	49392	C. Gildner & Co., 180 Front St. East, Toronto.	3 bots.	23	Vendors.	
" 18	" ..	49393	M. R. Yost & Son, 108 Portland St., Toronto	3 "	20	"	
" 30	Bulk Sweet Pickles.	49394	Wm. Davies Co., Ltd., 102 Queen St. East, Toronto.	3 pts.	45	"	
May 1	" ..	49395	Jas. Lawrie, Wellington St., Hamilton.	3 "	45		H. J. Heinz & Co., Toronto.
" 2	Bot'ld Sweet Pickles.	49396	W. J. Whitfield, Main St., East Toronto.	3 bots.	60		Unknown
						DISTRICT OF LONDON—	
May 7	Bottled Pickles..	48256	W. R. Butcher, St. Mary's.	3 bots.	45	Lea Pickling Co., Simcoe.	
" 7	" ..	48258	M. Fleming, St. Marys.	3 "	35	Stephens, London, Eng.	
" 8	" ..	48264	Stuebing & Son, Berlin.	3 "	45	T. A. Lytle Co., Toronto.	
						DISTRICT OF WINDSOR—	
May 2	Bottled Pickles.	48236	F. McDougall, Ingersoll.	3 bots.	45	Heinz, Leamington..	
" 2	" ..	48238	Geo. G. Beck, Ingersoll.	3 "	65	Lea Pickling & Preserving Co., Simcoe.	
2	" ..	48239	C. A. O'Neil Estate, Ingersoll.	3 "	60	T. A. Lytle Co., Toronto.	
3	" ..	48245	Poole & Co., Woodstock	3 "	75	Crosse & Blackwell, London, Eng.	
3	" ..	48249	A. M. Smith & Son, Woodstock.	3 "	30	Rowat & Co., Glasgow.	
8	" ..	48266	Schell Bros., Berlin..	3 "	30	G. E. Steggall, Streetsville.	
8	" ..	48268	Betzner & Co., Berlin.	3 "	75	Maconochie Bros., London, Eng.	
						DISTRICT OF MANITOBA—	
April 16	Bottled Pickles.	48641	St. James Cash Grocery, St. James, M.	3 bots.	60	The Dyson Co., Winnipeg.	
" 16	" ..	48642	" " ..	3 "	75	" " ..	
" 16	" ..	48643	Duncan & Hunter, St. James, M.	3 "	75	The Blackwood, Ltd., Winnipeg.	
" 16	" ..	48644	" " ..	3 "	75	The White Star Mfg. Co., Winnipeg.	
" 17	" ..	48645	J. Paterson, Portage Ave., Winnipeg.	3 "	75	" " ..	

SESSIONAL PAPER No. 14

BOTTLED PICKLES.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_4O_2$%	Formic Acid.		
H. J. DAGER, INSPECTOR.						
			p. c.			
Standard "Brand"	Sound and Firm	Trace	1·62	None	49392	
"	"	None.	3·00	"	49393	
"	"	"	1·58	"	49394	
"	"	"	3·00	"	49397	
"Queen Quality"	"	"	2·72	"	49396	
JNO. TALBOT, ACTING INSPECTOR.						
Lea's Celebrated Pickles.	Sound and Firm	Light trace.	2·34	None	48256	
Stephen's New Pickles.	"	None	3·21	"	48258	
Labelled "Sweet Midgetts," "Sterling" Brand.	"	Trace	2·00	"	48264	
JNO. TALBOT, INSPECTOR.						
Heinz Sweet Mixed Pickles.	Sound and Firm	None	2·95	None	48236	
Lea's Celebrated Pickles, sour, mixed	"	"	2·16	"	48238	
Sterling Brand Sweet Mixed Pickles.	"	Light trace.	1·52	"	48239	
Mixed Pickles	"	None	3·36	"	48245	
Rowat's Superior Pickles.	"	"	3·12	"	48249	
English John Bull Pickles.	"	"	2·24	"	48266	
Maconochie's Fruit Pickles.	"	"	4·16	0·029% present.	48268	Acetic Acid used.
A. C. LARIVIÈRE, INSPECTOR.						
East India Relish	Sound and Firm	Trace	3·68	None	48641	
Sweet Mixed Pickles.	"	None	2·88	"	48642	
Blackwood's Onion Pickles.	"	"	5·39	"	48643	
Sweet Mixed Pickles.	"	"	2·79	"	48644	
" "	"	"	2·00	"	48645	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF CALGARY—							
1912.							
April 7	Bottled Pickles.	44160	Campbell, Wilson & Horne, Lethbridge.	3 bots.	60	The Dyson Co., Winnipeg.	....
" 7	" ..	44161	H. A. McKillop & Co., Lethbridge.	3 "	1 20	H. J. Heinz, Pittsburg.	....
" 7	" ..	44162	A. MacDonald Co., Lethbridge.	3 "	50	White Star Manufacturing Co., Winnipeg.	....
" 7	" ..	44163	Hudson Bay Co., Lethbridge.	3 "	1 00	....	.....
" 7	" ..	44164	Bentley Co., Ltd., Lethbridge.	3 "	75	Lea Pickling and Preserving Co., Simcoe, Ont.	....
DISTRICT OF NELSON—							
April 18	Bottled Pickles.	49643	Cooper & Christine, Vernon, B.C.	3 bots.	75	Rowat & Co., Glasgow, Scot.	.. ..
" 18	" ..	49647	W. H. Smith, Vernon, B.C.	3 "	90	Leas, Ltd., Simcoe, Ont.	....
" 18	" ..	49648	" ..	3 "	1 20	Gillard & Co., London.	....
" 18	" ..	49652	W. R. Megaw, Vernon, B.C.	3 "	1 05	Dewar, Watson & Co., Glasgow, Scot.	....
" 18	" ..	49653	" ..	3 "	1 00	Wilson's, Leeds, Eng.	....
DISTRICT OF VANCOUVER—							
May 2	Bottled Pickles.	38341	Gruchy & Carlaw, Vancouver.	3 jars.	1 05	Crosse & Blackwell, London, Eng.	.....
" 2	" ..	38342	Armour MacFarlane, Vancouver.	3 "	75	Thos. W. Lipton, London, Eng.	.....
" 2	" ..	38343	Cook Bros., 4th Ave., Vancouver.	3 "	75	Rowat & Co., Liverpool, Eng.	....
" 2	" ..	38344	Z. Stephens, 4th Ave., Vancouver.	3 "	75	White Star Mfg. Co., Winnipeg.	.....
" 2	" ..	38345	Mills & McAdam, Vancouver.	3 "	75	Maconochie Bros., London, Eng.	....
DISTRICT OF VICTORIA—							
April 23	Bottled Pickles.	49140	Windsor Grocery Co., Victoria.	3 bots.	1 05	W. R. Houston & Co., Victoria.	.....
" 24	" ..	49141	The West End Grocery Co., Ltd., Victoria.	3 "	60	E. Lazenby & Son, London, S.E.	....
" 24	" ..	49142	Harrison & McDonald, Victoria.	3 "	75	Holbrook & Co., London, Eng.	....
" 25	" ..	49143	Wm. B. Hall, Victoria.	3 "	1 05	H. J. Heintz & Co., Pittsburg.	....
" 25	" ..	49144	Dixi H. Ross, Victoria.	3 "	75	C. & E. Morton, London, Eng.	....

SESSIONAL PAPER No. 14

BOTTLED PICKLES.

Inspector's Report. (Is not an expression of opinion.	Results of Analysis. Soundness of Vegetables.	Alum.	Acetic Acid $C_2H_4O_2$	Formic Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. W. FLETCHER, INSPECTOR.						
			p. c.			
. .....	Sound and Firm.	Light trace.	1·61	None . .	44160	
....	" ..	" .	2·96	" ...	44161	
....	" .	None ...	2·47	" .	44162	
Put up for Hudson Bay Co.	"	" ...	3·38	0·021 present.	44163	Acetic acid used.
Pearl Onions.... ..	" .	"	2·31	0·023 present.	44164	"
THOS. PARKER, INSPECTOR.						
. ...	Sound and Firm .	None .	4·27	None .	49643	
. ...	" .	" ..	2·88	Trace . .	49647	
.. ... .	"	"	3·17	"	49648	
.. ..	" ..	"	1·10	None .	49652	
....	"	" ..	3·24	" .	49653	
J. F. POWER, INSPECTOR.						
Mixed pickles.	Sound and Firm..	None	3·12	0·038 present.	38341	Acetic acid used.
Lipton's choice mixed.	" ...	"	3·66	Trace	38342	
Rowat's superior pickles in pure vinegar	" .	"	3·60	" . .	38343	
Guaranteed to be absolutely pure and not injurious.	Mouldy on top .	Light trace.	1·64	None	38344	Mouldy.
Mixed pickles.	Sound and Firm..	None .. .	3·20	"	38345	
D. O'SULLIVAN, INSPECTOR.						
Sweet pickles.	Mouldy	None	1·04	0·020 present.	49140	Acetic acid used. Mouldy.
Mixed pickles.	Sound and Firm..	"	3·02	None . . .	49141	
"	" ..	" .. .	4·11	"	49142	
Heinz's sour mixed pickles.	" ..	"	3·84	" ...	49143	
Morton's sweet mixed pickles.	" ..	"	2·64	"	49144	

APPENDIX N.

BULLETIN No. 250—GROUND WHITE PEPPER.

OTTAWA, February 19, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I beg herewith to hand you a report upon two hundred and seventy three samples sold to our inspectors as Ground White Pepper in September and October of last year. The inspection was made throughout the Dominion, and may be taken to fairly represent the article as found upon the Canadian market.

The result of the analysis may be summarized as follows:

Found genuine	215	samples.
" adulterated	53	"
" doubtful	5	"
Total	273	"

It thus appears that adulteration in White Pepper amounts to 19% of the samples collected. The last report upon White Pepper is contained in Bulletin No. 203, of March, 1910; on that occasion one hundred and forty samples were reported and adulteration amounted to 17%.

It will be seen that both White and Black Pepper continue to be among the most extensively adulterated foodstuffs on the market.

I beg to recommend the publication of this report as Bulletin No. 250.

I have the honour to be ,Sir

Your obedient servant,

A. McGILL,

Chief Analyst.

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion.)
				Quality.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1912.								
Sept. 11	Ground White Pepper	46821	Wentzells L'd., Halifax, N.S.	¾ lb.	22	Jno. P. Mott Co. Halifax, N.S.	Manufacturers	
" 11	"	46822	Wm. Moore, Halifax, N.S.	¾ "	27	Jno.P.Mott Co., Halifax, N.S.	"	
" 13	"	46823	Jno.P.Mott & Co., Halifax, N.S.	¾ "	nil	Vendors		
" 13	"	46824	Nat. Drug & Chem. Co., Halifax, N.S.	¾ "	25	"		
" 16	"	46825	Morrison & Williams, Halifax, N.S.	¾ "	22	Puddington, Wetmore & Morrison, St. John, N.B.	Manufacturers	
" 17	"	46826	Bauld Bros., Ltd., Halifax, N.S.	¾ "	19	Unknown, said to be J. R. Mott & Co., Halifax.		
" 17	"	46827	Jas. Scott & Co., Halifax, N.S.	¾ "	30	W. H. Schwartz & Sons, Halifax.	Manufacturers	
" 18	"	46828	Corkum & Ritcey, Halifax, N.S.	¾ "	23	Gorman Eckert Co., London, Ont.	"	
" 18	"	46829	A. J. Baker & Co., Halifax, N.S.	¾ "	30	Gorman Eckert Co., London, Ont.	"	
" 19	"	46830	W. H. Schwartz & Sons, Halifax, N.S.	¾ "	20	Vendors		
" 19	"	46831	E. W. Crease & Son, Halifax, N.S.	¾ "	30	Jno. P. Mott & Co., Halifax.	Manufacturers	
" 19	"	46832	Dillon Bros., Halifax, N.S.	¾ "	45	Todhunter, Mitchell Co., Toronto, Ont.	"	
" 24	"	46833	Yerxas, Yarmouth, N.S.	¾ "	25	H. W. Cole, St. John, N.S.	"	
" 27	"	46834	Eisener & Coleman, Dartmouth, N.S.	¾ "	38	C. H. Cochrane Co., Ottawa.	"	
Oct. 3	"	46835	A. F. Ross, Truro, N.S.	¾ "	35	Unknown		
" 5	"	46836	H. C. Barnaby & Sons Bridgewater, N.S.	¾ "	30	Jno. P. Mott & Co., Halifax,	Manufacturers	
" 7	"	46837	Jas. Hogan, Halifax, N.S.	¾	30	Unknown		
" 8	"	46838	T. J. Brown, Halifax, N.S.	¾ "	30	"		
" 8	"	46839	W. J. Hopgood & Son. Halifox, N.S.	¾ "	30	W. H. Schwartz & Sons, Halifax, N.S.	Manufacturers	
" 8	"	46840	C. McNab & Co., Dartmouth, N.S.	¾ "	30	Jno. P. Mott & Co., Halifax, N.S.	"	
				¾ "	30			

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.			
Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.			
1·62	Pepper tissues only	46821	Genuine.
1·46	" "	46822	"
1·30	" "	46823	"
1·60	" "	46824	"
1·74	" "	46825	"
1·44	" "	46826	"
2·00	" "	46827	"
1·06	" "	46828	"
1·40	" "	46829	"
1·40	" "	46830	"
4·48	" " (Black pepper)	46831	"
1·32	" "	46832	"
1·04	" "	46833	"
1·60	" "	46834	"
3·66	" "	46835	"
1·38	" "	46836	"
4·64	Pepper tissues, wheat starch and foreign stone cells	46837	Adulterated
1·96	Pepper tissues only	46838	Genuine.
2·06	" "	46839	"
1·20	" "	46840	"

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF PRINCE EDWARD ISLAND								
1912. Sept. 6	Ground White Pepper.	46247	Grant & Co., Ch. Town, P. E.I.	¾ lb.	27	White Swan S. & C., Ltd., Toronto.	.....	.....
" 6	" ..	46248	J. G. Jamieson, Ch. Town, P.E.I.	¾ "	36	Lymans, Ltd., Montreal.	.....	.....
" 7	" ..	46249	A. Gates & Co., Ch. Town, P. E.I.	¾ "	30	.....	.....	.....
" 9	" ..	46250	Coffin & Co., Ch. Town, P. E.I.	¾ "	30	G. D. Barbour, St. John, N.B.	.....	.....
" 10	" ..	46251	The McKinnon Drug Co., Ch. Town, P.E.I.	¾ "	24	Unknown.....	.....	.....
" 12	" ..	46252	TheW.W.Walker Ch. Town, P. E.I.	"	30	.....	Carvell Bros., Ch. Town, P. E.I.	.....
" 12	" ..	46253	L. A. Haszard, Ch. Town, P. E.I.	¾ "	27	Schwartz &Sons Halifax.	.....	.....
" 21	" ..	46254	Apothecaries Hall, Ch. Town, P.E.I.	¾ "	24	Lymans, Ltd., Montreal.	.....	.....
" 21	" ..	46255	Sanderson &Co., Ch. Town, P. E.I.	¾ "	30	Schwartz & Sons, Halifax, N.S.		
Oct. 1	" ..	46256	Gourlies, Ltd., Summerside, P.E.I.	¾ "	30	Canadian Drug Co., St. John, N.B.	.....	.....
" 1	" ..	46257	Sinclair & Stewart, Summerside, P.E.I.	¾ "	30	Schwartz & Sons, Halifax, N.S.	.....	.....
" 1	" ..	46258	Brace McKay & Co., Summer- P.E.I..	¾ "	30	Schwartz & Sons, Halifax N.S.	.....	.....
" 3	" ..	46259	Mathew & McLean, Souris,	¾ "	30	Dearborn & Co St. John, N.B.	.. ..	.....
DISTRICT OF NEW BRUNSWICK—								
Sept. 4	Ground White Pepper.	50420	Dearborn & Co., St. John, N.B.	¾ lb.	21	Vendors.....	.....	.....
" 4	" ..	50421	Puddington, Wetmore & Morrison,Ltd., St. John, N.B.	¾ "	21	"	.....	.....
" 4	" ..	50422	G. E. Barbour Co., Ltd., St. John, N.B.	¾ "	28	"	.....	.....
" 5	" ..	50423	H. W. Cole, Ltd., St. John, N.B.	¾ "	24	"	.....	. . . .
" 5	" ..	50424	L. H. Thorne, S . John, N.B.	¾ "	21	"	.....	....

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
WM. A. WEEKS, INSPECTOR.			
1·44	Pepper tissues only	46247	Genuine.
1·18	" "	46248	"
1·60	Pepper tissues and wheat starch	46249	Adulterated.
1·22	Pepper tissues only	46250	Genuine.
1·46	" "	46251	"
1·40	" "	4625	"
2·00	" "	4625	"
1·20	" "	4625	"
1·66	" "	4625	"
2·08	" "	4625	"
1·04	" "	4625	"
1·30	" "	46258	"
4·08	" "	46259	"
JNO. FERGUSON, INSPECTOR.			
1·68	Pepper tissues only	50420	Genuine.
1·42	" "	50421	"
1·08	" "	50422	"
1·20	" "	50423	"
1·64	" "	50424	"

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quality.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF NEW BRUNSWICK—		
1912.								
Sept. 9	Ground white pepper.	50425	Baird & Peters, St. John, N.B.	¾ lb	19	Vendors		
" 10	" ..	50426	W. A. Simonds, St. John, N.B.	¾ "	30	Todhunter, Mitchell & Co., Toronto, Ont.		
" 10	" ..	50427	McPherson Bros., St. John, N.B.	¾ "	30	C. H. Coehrane Co., Ottawa, Ont.		
" 11	" ..	50428	F. E. Williams & Co., St. John, N.B.	¾ "	30	J. P. Mott & Co., Halifax, N.S.		
" 16	" ..	50429	M. E. Grass, St. John, N.B.	¾ "	30		Jones & Schofield, St. John, N.B.	
Oct. 3	" ..	50430	John McKnight, Fredericton, N.B	¾ "	30	G. E. Barbour Co., Ltd. St. John, N.B.		
" 3	" ..	50431	G. T. Whelpley, estate Fredericton, N.B.	¾ "	30	Pure Gold Mfg. Co., Toronto.		
" 15	" ..	50432	Mills Eveliegh Co. Ltd., Sussex, N.B.	¾ "	30	Unknown	Unknown	Old stock, Vendor would not guarantee quality.
" 15	" ..	50433	Sussex Mercantile Co. Ltd., Sussex, N.B.	¾ "	27		H. W. Cole, Ltd. St. John, N.B.	"Thistle" Brand.
" 16	" ..	50434	Geo. A. Robertson, Moneton, N.B.	¾ "	27	S. H. Ewing & Son, Montreal.		
" 16	" ..	50435	H. T. Brewster, Moncton, N.B.	¾ "	27		Reed Co. Ltd., Moncton, N.B.	
" 16	" ..	50436	The 2 Barkers Ltd., Moncton N.B.	¾ "	27		The 2 Barkers Ltd., St. John, N.B.	
" 17	" ..	50437	Miller Bros., Newcastle, N.B.	¾ "	30	Todhunter Mitchell & Co. Toronto, Ont.		
" 18	" ..	50438	J. B. Snowball Co. Ltd., Chatham, N.B.	¾ "	30	Todhunter Mitchell & Co. Toronto, Ont.		
" 19	" ..	50439	A. T. Hinton, Bathurst, N.B.	¾ "	27		Reed Co. Ltd., Moncton, N.B.	Old stock would not guarantee purity.
						DISTRICT OF QUEBEC		
Sept. 16	Ground white pepper.	37201	Hamel & Bedard, 728 Rue Quebec	¾ lb.	30	Litster Pure Food Co.	Manufacturers	
" 17	" ..	37202	V. Lacasse & Cie, 7 Rue St. Clair, Quebec.	¾ "	30	J. Lemesaire	Whitead & Turner.	
" 17	" ..	37203	J. E. Paquet, 8 Rue Sutherland Quebec.	¾ "	30	Unnknwo	Unknown	

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.			Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.	No. of Sample.	
Concluded.			
1·40	Pepper tissues only	50425	Genuine.
1·40	" "	50426	"
1·22	" "	50427	"
1·20	" "	50428	"
3·40	" "	50429	"
1·42	" "	50430	"
1·20	" "	50431	"
1·24	Pepper tissues and foreign stone cells in excess	50432	Adulterated, sold without guarantee of purity
0·96	Pepper tissues only	50433	Genuine.
1·16	" "	50434	"
1·42	" "	50435	"
2·84	" "	50436	"
1·08	" "	50437	"
1·72	" "	50438	"
1·74	" "	50439	"
F. X. W. E. BELAND, INSPECTOR.			
1·26	Pepper tissues only	37201	Genuine.
1·12	" "	37202	"
2·36	Pepper tissues and maize starch	37203	Adulterated.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF QUEBEC—								
1912 Sept. 17	Ground White pepper.	37204	L. Filion, 166 Rue Latourel, Quebec.	¾ lb	30	Quebec, Spice...	Manufacturers..	.....
" 17	" ..	37205	J. Rochette, 7 Rue Deligny, Quebec.	¾ "	30	Unknown.....	Langlois & Paradis.	.....
" 18	" ..	37206	Alfred Boily, 38 Cote D'Abraham, Quebec.	¾ "	30	Herron & Leblanc.	Manufacturers...	.....
" 18	" ..	37207	M. Boyce & Son 1922 Cote D'Abraham, Quebec.	¾ "	30	Herron & Leblanc.	" ..	.....
" 18	" ..	37208	J. A. Tramblay, 139 Rue Richlieu, Quebec.	¾ "	30	Unknown.....	J. B. Reneaud & Cie.	.....
" 19	" ..	37209	Geo. Trottier, 180½ Rue St. Olivier, Que.	¾ "	30	Unknown.....	Unknown.....	.....
" 19	" ..	37210	Emile Broussea 17 Rue Sutherland Quebec.	¾ "	30	.....	.....	.....
" 19	" ..	37211	R. Cantin, 326 Rue St. Olivier Quebec.	¾ "	30	Canadian Spice Mills.	Manufacturers...	.....
" 3	" ..	37492	Eudore Delisle, 2 ave. Tachereau, Quebec.	¾ "	30	Herron & Leblanc.	Manufacturers...	.....
" 4	" ..	37493	O. Lacroix, 19 Rue St. Joseph Quebec.	¾ "	30	Lemesarie &	J. B. Reneaud & Cie.	.....
" 5	" ..	37494	W. Cantin, 133 Rue du Pont, Quebec.	¾ "	30	.....	Unknown.....	.....
" 6	" ..	37495	G. Gingras, 268 Rue du Raie, Quebec.	¾ "	30	Unknown.....	.....	.....
" 9	" ..	37496	Cantin & Frere, 271 Rue St. Joseph, Que.	¾ "	30	"	.....	.....
" 10	" ..	37497	C. S. Riverin, 50 Rue de la Couronne, Que	¾ "	30	.....	.....	.....
" 11	" ..	37498	Myrand & Pouliot, 70 Rue de la Courronne, Quebec.	¾ "	30	Unknown.....	Unknown.....	.....
" 12	" ..	37499	Arthur Drolet, 714 Rue St. Valier, Que.	¾ "	30	"	Herron & Leblanc.	.....
" 13	" ..	37500	Arthur Rinfret, 414 Rue S. Joseph, Que.	¾ "	30	"	Unknown.....	.....

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.			
Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.			
2·24	Pepper tissues only	37204	Genuine.
1·46	" "	37205	"
2·54	Pepper tissues and wheat starch	37206	Adulterated.
1·08	" " " "	37207	"
3·88	Pepper tissues only	37208	Genuine.
2·30	Pepper tissues and wheat starch	37209	Adulterated.
1·74	Pepper tissues wheat, and other starches	37210	"
1·04	Pepper tissues only	37211	Genuine.
2·20	Pepper tissues and wheat starch	37492	Adulterated.
1·08	Pepper tissues only	37493	Genuine.
1·24	" "	37494	"
1·64	Pepper tissues and wheat starch	37495	Adulterated.
2·18	Pepper tissues and a little wheat starch	37496	Doubtful.
1·04	Pepper tissues and a little maize starch	37497	"
1·90	Pepper tissues, wheat and maize starches	37498	Adulterated.
1·42	" "	37499	"
1·46	Pepper tissues only	37500	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF ST. HYACINTHE
1912.								
Sept. 16	Ground White pepper.	1412	A. Letendre, St. Bonaventure.	¾ lb.	30	.....	C. Labelle & Cie Sorel.	.....
" 17	" ..	1413	L. Des cheneau, Pierreville Mills.	¾ "	30	.....	C. Labelle & Cie Sorel.	.....
" 17	" ..	1414	J. E. Turbiele, Yamaska, est.	¾ "	15	.....	.....	.....
" 18	" ..	1415	A. Casaban Sorel.	¾ "	26	.....	Kearney Bros. Montreal.	.....
" 18	" ..	1416	H. Tetrault Contrecouer.	¾ "	30	.....	L. Chaput, fils & Cie, Montreal	.....
" 19	" ..	1417	H. de La Barre Lae St. Ours.	¾ "	30	J. V. Boudrias, Montreal.	.....	.....
" 19	" ..	1418	J. A. Girouard, St. Ours.	¾ "	30	S. H. Ewing & Son, Montreal	.....	.....
" 24	" ..	1419	W. R. Simpson, St. Jean.	¾ "	30	White Swan S. & C. Ltd., Toronto.	.....	.....
" 25	" ..	1420	Aime Lemieux, Henryville.	3 tins	30	.....	.....	.....
" 25	" ..	1421	Corriveau & Freres, St. Sebastien.	¾ lb.	23	Unknown.....	S. H. Ewing & Sons.	.....
" 26	" ..	1422	J. E. England, Dunham.	¾ "	30	Pure Gold Mfg. Co., Toron o.	.....	.....
" 27	" ..	1423	T. Landry & fils, Philipsburg	¾ "	23	Unknown.....	Unknown.	.....
Oct. 2	" ..	1424	Nap. Sevigny, Megantic.	¾ "	25	.....	W. Genest & fils Sherbrooke.	.....
" 2	"	1425	F. Lapointe & Cie., Megantic	¾ "	30	S. H. Ewing & & Sons, Mon-real.	.....	.....
" 3	"	1426	T. R. Paige, Coaticook.	3 tins	23	Herron Leblanc Ltd., Mon - real.	.....	.....
" 3	" ..	1427	Hopkins & McKee, Coa i-cook.	¾ lb.	24	Lilster Pure Food Co. Ltd., Toronto.	.....	.....
" 4	" ..	1428	J. B. LeBaron, North Hatley	3 tins.	30	White Swan S. & C., Ltd., Toronto.	.....	.....
" 9	" ..	1429	Oliver Bros., Mansonville...	3 "	30 30	White Swan S. & C. Ltd., Toronto.	.....	.....
" 10	" ..	1430	Chas. Lefebvre, Sherbrooke.	¾ lb.	30	.....	Denault Grain& Produee Co., Sherbrooke.	.....
" 14	" ..	1431	Gregoire Freres, St. Hyacinthe	¾ "	30	Unknown.....	Unknown.....	.....

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GROUND WHITE PEPPER.

Results of Analysis.			
Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. C. ROULEAU, INSPECTOR.			
1·08	Pepper tissues only	1412	Genuine.
1·60	Pepper tissues, maize and wheat starches	1413	Adulterated.
6·52	Pepper tissues, maize and wheat starches, (Black pepper)	1414	"
0·81	Pepper tissues only	1415	Genuine.
1·02	" "	1416	"
1·20	" "	1417	"
2·66	Pepper tissues and foreign stone cells in excess	1418	Adulterated.
1·24	Pepper tissues only	1419	Genuine.
2·72	Pepper tissues and wheat starch	1420	Adulterated.
2·22	Pepper tissues, wheat starch and foreign stone cells in excess	1421	"
1·02	Pepper tissues only	1422	Genuine.
1·46	" "	1423	"
1·80	" "	1424	"
1·64	Pepper tissues and foreign stone cells in excess	1425	Adulterated.
1·48	Pepper tissues and wheat starch	1426	"
1·58	Pepper tissues only	1427	Genuine.
1·20	" "	1428	"
1·04	" "	1429	"
2·46	" "	1430	"
1·44	" "	1431	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression o opinion.)
						DISTRICT OF MONTREAL		
1912								
Sept. 10	Ground White Pepper.	50961	McFaul Bros., Lachute, P.Q	¾ lb.	30			
" 10	" ..	50962	T. Dallaire, Lachute, P.Q.	¾ "	15	Thos. Barrow, Lachute, P.Q.		
" 10	" ..	50963	A. Lavigne, Lachute, P.Q.	¾ "	30			
Oct. 1	" ..	50964	A. W. Hugman, Ltd., 281 St. Paul St., Montreal.	¾ "	28	Vendors		
" 1	" ..	50965	A. Kouri, 31 Bonseeours st. Montreal.	¾ "	30			
" 1	" ..	50966	John Stroud, 1103 St. Lawrence B., Montreal.	¾ "	30			
" 3	" ..	50967	J. E. Groulx, 1057 Laurier Ave. W., Outremont, P.Q.	¾ "	30	S. H. Ewing & Sons.		
" 3	" ..	50968	Limoges et frere 2000 Hutchison st., Montreal.	¾ "	30		Hudon Hebert & Cie., Ltd.	
" 3	" ..	50969	A. Gadbois, Hutchison & St. Viateur st., Montreal.	¾ "	30	J. V. Boudrias, Montreal.		
" 3	" ..	50970	The Park Prosion Co., 209 St. Vinteur st., Outremont, P.Q.	¾ "	30	S. H. Ewing & Sons.		
" 3	" ..	50971	H. Ward, 108 Viateur, st., Montreal.	¾ "	30			
" 3	" ..	50972	E. Pelland, 180 Fairmount ave. W., Montreal.	¾ "	30			
" 3	" "	50973	E. Tessier, 70 Laurier ave. W., Montreal.	¾ "	30		Herron, Leblanc, Ltd.	
" 4	" ..	50974	Frank D. Hall, St. Agathe de Monts, P.Q.	¾ "	30			
" 4	" ..	50975	G. Cote, St. Agathe de Monts, P.Q.	¾ "	30		L. Chaput fils & & Co., Ltd.	
" 4	" ..	50976	T. J. Collins, St. Agathe de Monts, P.Q.	¾ "	30	Herron, Leblanc, Ltd.	Hudon & Orsale Montreal.	
" 7	"	50977	Jas. Graham, 4451 St. Cath. St., Westmount.	¾ "	30			

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.			
Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. J. COSTIGAN, INSPECTOR.			
1·52	Pepper tissues, wheat and foreign starches	50961	Adulterated.
0·80	" "	50962	"
1·32	Pepper tissues only	50963	Genuine.
0·94	" "	50964	"
2·00	Pepper tissues, wheat starch and foreign starch	50965	Adulterated.
1·40	Pepper tissues only	50966	Genuine.
2·04	" "	50967	"
1·64	" "	50968	"
1·16	" "	50969	"
1·52	" "	50970	"
1·14	" "	50971	"
1·64	" "	50972	"
1·48	Pepper tissues and foreign starch (probably rice)	50973	Adulterated.
1·60	Pepper tissues, wheat and foreign starches	50974	"
1·24	Pepper tissues only	50975	Genuine.
1·96	Pepper tissues, wheat and foreign starch	50976	Adulterated.
1·94	" only	50977	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF MONTREAL		
1912.								
Oct. 8	Ground White pepper.	50978	Theo. Rochon, 210 City Hall Ave., Montreal.	¾ lb.	30	.....	Kearney Bros., Montreal.	.....
" 10	"	50979	J. O. Malo, Joliette, P.Q.	¾ "	30	.....	.....	.....
" 11	"	50980	J. Miller, 117 Galt Ave. Verdun, P.Q.	¾ "	30	.....	.....	.....
						DISTRICT OF OTTAWA—		
Aug. 30	Ground White Pepper.	50212	Cameron & Downing, Vankleek Hill, Ont.	¾ lb.	30	Mathewson's Sons, Montreal.	Manufacturers	.....
" 31	"	50213	C. A. Farmer & Son, Perth, Ont.	¾ "	30	Pure Gold Mfg. Co., Toronto.	"	.....
Sept. 4	"	50214	S. Berger, 510 Bank St., Ottawa, Ont.	¾ "	30	Unknown.....	H. N. Bate & Sons, Ottawa.	.....
" 4	"	50215	Geo. Agar, 409 Bronson Ave., Ottawa, Ont.	¾ "	30	"	H. N. Bate & Sons, Ottawa.	.....
" 4	"	50216	H. A. McCagg, 698 Gladstone Ave., Ottawa, Ont.	¾ "	30	"	F. J. Castle Co., Ltd., Ottawa.	.....
" 4	"	50217	Alex. Phillips, Roehester St., Ottawa, Ont.	¾ "	30	"	H. N. Bate & Sons, Ottawa.	.....
" 5	"	50218	J. B. Bedard, Wellington St. Hull, P.Q.	¾ "	30	"	F. J. Castle Co., Ltd., Ottawa.	.....
" 5	"	50219	J. E. Ryan & Co., Wellington St., Hull, P.Q.	¾ "	30	C. H. Cochrane & Co., Ottawa.	Manufacturers...	.....
" 5	"	50220	Jules Grattoa, Wellington St. Hull, P.Q.	¾ "	30	.....	.....	.....
" 6	"	50221	Jas. McDougall, Brockville.	¾ "	30	J. M. Lowes Co., Ltd., Toronto	Manufacturers ..	.....
" 6	"	50222	F. H. Clifford, Brockville.	¾ "	30	Litster Pure Food Co., Toronto.	" ..	.....
" 6	"	50223	J. Culbert, Brockville.	¾ "	30	Pure Gold Mfg. Co., Ltd., Toronto.	" ..	.....
" 6	"	50224	A. E. Shaver, Brockville.	¾ "	30	Pure Gold Mfg. Co., Ltd., Toronto.	" ..	.....
" 7	"	50225	John Hughes, Prescott.	¾ "	30	J. M. Lowes Co., Toronto.	" ..	.....

GROUND WHITE PEPPER.

Results of Analysis.				
Total Ash.	Microscopical Examination.		No. of Sample.	Remarks and Opinion of the Chief Analyst.

Concluded.

2·68	Pepper tissues only		50978	Genuine.
1·40	"	and foreign stone cells in excess	50979	Adulterated.
1·54	"	only	50980	Genuine.

J. A. RICKEY, INSPECTOR.

4·64	Pepper tissues only (Black Pepper)		50212	Genuine.
1·13	"	"	50213	"
3·76	"	and slight excess of foreign stone cells	50214	Doubtful.
1·96	"	" " " "	50215	"
1·91	"	and wheat starch	50216	Adulterated.
3·12	"	"	50217	"
1·42	"	"	50218	"
1·94	"	only	50219	Genuine.
1·60	"	and wheat starch	50220	Adulterated.
2·00	"	only	50221	Genuine.
1·74	"	"	50222	"
1·00	"	"	50223	"
3·60	"	"	50224	"
1·50	"	"	50225	"

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF OTTAWA—		
1912.	Ground White							
Sept. 7	Pepper.	50226	R. A. Scott & Co., Prescott.	¾ lb	30	C. H. Cochrane Co., Ottawa.	Manufacturers..	.....
" 11	"	50227	Wm. Miller, Somerset St., Ottawa.	¾ "	30	Unknown.....	Unknown.....	.....
" 12	"	50228	Major & Hurteau, 816 Somerset St., Ottawa.	¾ "	30	"	Provost and Allard, Ottawa.	.....
" 12	"	50229	G. H. Hall & Co., Preston St., Ottawa.	¾ "	30	C. H. Cochrane & Co., Ottawa.	Manufacturers..	.....
" 16	"	50230	T. R. Davies, Rideau St., Ottawa.	¾ "	30	Unknown.....	H. N. Bate & Sons, Ottawa.	.....
" 18	"	50231	W. Miskelly, Merrickville.	¾ "	30	"	Geo. Robinson, & Son, Kingston.	.....
						DISTRICT OF KINGSTON—		
Sept. 3	Ground White Pepper	50731	J. Gilbert, Kingston.	¾ lb..	30	.....	J. M. Lowes, Toronto.	.....
" 3	" ..	50732	J. E. Purdy, Kingston.	¾ " .	30	.....	Robertson, Nicolle Co., Kingston.	.....
3	" ..	50733	H. T. Tree, Kingston.	¾ " .	26	Unknown.....	Unknown.....	.....
" 3	" ..	50734	J. A. Percy, Kingston.	¾ " .	30	.....	Geo. Robertson, & Son, Kingston.	.....
" 3	" ..	50735	W. J. Arnil, Kingston.	¾ " .	30	.....	.....	.....
" 4	" ..	50736	H. M. Stover, Kingston	¾ " .	30	.....	A. Maclean, Kingston	.....
" 4	" ..	50737	W J Lee, Kingston.	¾ " .	30	.....	W G Craig Co Kingston.	.....
" 4	" ..	50738	P. A. Haffner, Kingston.	¾ " .	30	.....	J. M. Lowes, Toronto.	.....
" 4	" ..	50739	J. Cullen, Kingston.	¾ " .	30	.....	A. Maclean, Kingston.	.....
" 9	" ..	50740	R. Elvins, Belleville.	¾ " .	23	.....	Dalton Bros. Toronto.	.....
" 9	" ..	50741	J. B. Harker, Belleville.	¾ " .	30	.....	White Swan Co. Toronto.	.....
" 9	" ..	50742	George Boyle, Belleville.	¾ " .	30	.....	Todhunter & Mitchell, Toronto.	.....
" 9	" ..	50743	J. H. P. Young, Belleville.	¾ " .	30	.....	Pure Gold Co., Toronto.	.....
" 10	" ..	50744	T. McIntosh, Cobourg..	¾ " .	30	.....	Todhunter & Mitchell, Toronto.	.....

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.			
1·50	Pepper tissues only	50226	Genuine.
2·90	" and wheat starch	50227	Adulterated.
3·50	" and excess of foreign stone cells	50228	"
1·70	Pepper tissues only.. .	50229	Genuine
1·20	" and wheat starch	50230	Adulterated
3·60	" only	50231	Genuine.
JAS. HOGAN, INSPECTOR.			
1·30	Pepper tissues only	50731	Genuine.
1·50	" and wheat starch	50732	Adulterated.
2·92	" only..	50733	Genuine.
2·02	" and wheat starch	50734	Adulterated.
1·84	" " "	50735	"
1·30	" only	50736	Genuine.
1·70	" and wheat starch	50737	Adulterated
1·20	" only	50738	Genuine.
1·30	" " .. .	50739	"
1·60	" and wheat starch	50740	Adulterated.
3·00	" only...	50741	Genuine.
1·42	" "	50742	"
1·22	" "	50743	"
1·10	" "	50744	"

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF KINGSTON—								
1912 Sept. 10	Ground White pepper.	50746	H. Crozier, Cobourg.	¾ lb	30	.....	White Swan Co. Toronto.	.....
" 10	" ..	50747	The Thompson-MacdonaldCo. Cobourg.	¾ "	30	.....	White Swan Co. Toronto.	.....
" 10	" ..	50748	E. Guillet, Cobourg.	¾ "	30	.....	W. H. Ewing Co., Montreal.	.....
" 10	" ..	50749	F. Rosevear, Port Hope.	¾ "	30	.....	.....	.....
" 10	" ..	50750	F. H. Brown, G Port Hope.	¾ "	30	Unknown.....	Unknown.....	.....
" 11	" ..	50791	W. J. Roulty, Peterboro.	¾ "	30	.....	Dalton Bros., Toronto.	.....
DISTRICT OF TORONTO—								
Sept. 13	Ground White Pepper.	51401	M. Bellinger, 623 Gerrard St., East Toronto.	¾ lb...	30	.....	Medland Bros., Toronto.	.....
" 13	" ..	51402	F. B. Ulling, 1020 Gerrard St., East Toronto.	¾ " ..	30	.....	Pure Gold Mfg. Co., Ltd., Toronto.	.....
" 13	" ..	51403	Rudge & Phillips, 225 Augusta Ave., Toronto.	¾ " ..	30	.....	H. Pechardt & Co., Toronto.	
" 16	" ..	51404	W. J. Snell, 2165 Queen St., East Toronto.	¾ " ..	27	.....	Parsons, Brown & Co., Toronto.	.....
" 17	" ..	51405	Wm. Horner, 1001 Bloor St., West Toronto.	¾ " ..	30	.....	.....	.....
" 17	" ..	51406	Smith & Co., 94 Geary Ave. Toronto.	¾ " ..	30	.....	Davidson & Hay Co.,Ltd., Toronto.	.....
" 17	" ..	51407	J. Anderson,1584 Queen St., West Toronto.	¾ " ..	30	.....	Dalton Bros., Toronto.	
" 17	" ..	51408	F. A. Drurie, 206 Argyle St., Toronto.	¾ " ..	27	.....	White Swan S & C., Ltd., Toronto.	Sample taken from original tin labelled: Absolu'ly pure
" 19	" ..	51409	Wm. Seanlon, 706 Kingston Road, East Toronto.	¾ " ..	30	.....	Unknown.....	.....
" 19	" ..	51410	Thos. Earls, 933 Lansdowne Ave., Toronto	¾ " ..	30	.....	Scott Bros., 190 King St. E., Toronto.	.....
" 20	" ..	51411	A. Murray, Aurora.	¾ " ..	25	.....	Thos. Kinneor, & Co., Toronto.	.....
" 20	" ..	51412	G. A. Cook, Newmarket..	¾ " ..	30	.....	Eby Blain Ltd., Toronto.	Sample taken from original tin labelled: Pure white pepper.

GROUND WHITE PEPPER.

Results of Analysis.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.			
2·70	Pepper tissues only	50746	Genuine.
2·96	" "	50747	"
1·60	" "	50748	"
1·30	" and wheat starch	50749	Adulterated.
1·02	" only	50750	Genuine.
1·60	" and wheat starch	50791	Adulterated.
H. J. DAGER, INSPECTOR.			
2·40	Pepper tissues only	51401	Genuine.
2·50	" "	51402	"
1·70	" "	51403	"
1·40	" "	51404	"
1·10	" "	51405	"
1·20	" "	51406	"
1·32	" "	51407	"
1·34	" "	51408	"
1·10	" "	51409	"
1·70	" "	51410	
1·52	" "	51411	"
1·44	" "	51412	"

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF TORONTO—								
1912. Oct. 1	Ground White pepper.	51413	N. Hubbert, Burlington.	¾ lb.	20	.....	Macpherson, Glassco & Co., Hamilton	.....
" 1	" ..	51414	P. & R. Laing, Dundas.	¾ "	30	.....	McLarens Ltd., Hamilton.	
" 2	" ..	51415	M. Burkholder, 172 King William St., Hamilton.	¾ "	30	.....	Lumsden Bros., Hamilton.	
" 2	" ..	51416	E. C. Jamieson, Wilson & Fairleigh St., Hamilton.	¾ "	30	.....	McLarens Ltd., Hamilton.	
" 2	" ..	51417	G. W. Mitson, Loteridge St., Hamilton.	¾ "	23	.....	Unknown.....	.....
" 2	" ..	51418	S. Cheeseman, 644 King St. West, Hamilton.	¾ "	30	.....	"	.....
" 2	" ..	51419	M. B. Hibbard, Main & Locke Sts., Hamilton.	¾ "	30	.....	Imp. cocoa & sp. Co., Hamilton.	
" 3	" ..	51420	Wm. P. Keating 337 York St., Hamilton.	¾ "	30	.....	Lumsden Bros., Hamilton.	
DISTRICT OF WINDSOR—								
Sept. 19	Ground White Pepper.	48102	R. Baker, London East.	¾ lb.	30	.....	Unknown.....	.....
" 19	" ..	48101	G. H. Mennill, London East.	¾ "	30	.....	I.X.L. Spice & Coffee Co., London.	.....
" 19	" ..	48103	Chas. Depper, London East.	¾ "	23	.....	I.X.L. Spice & Coffee Co., London.	.....
" 20	" ..	48108	S. M. Fleet, Ingersoll.	¾ "	30	.....	Gorman-Eckert Co., London.	.....
" 20	" ..	48110	P. J. Sherry, Ingersoll.	¾ "	23	E. Adams & Co., London.	.....	.....
" 20	" ..	48112	H. W. Healy, Ingersoll.	¾ "	25	Unknown.....	Unknown.....	.....
" 20	" ..	48113	Chas. H. Crawford, Ingersoll	¾ "	30	Imp.coc. & spice Co., Hamilton	.....	.....
" 20	" ..	48116	Buchanan Bros., Ingersoll.	¾ "	30	.....	Gorman Eckert Co., London.	"Forest City" Pure Spices.
" 20	" ..	48117	Robt. Stewart, Ingersoll.	¾ "	38	.....	F. F. Dalley, Hamilton.	Labelle d Dalley's Pure White Pepper.
" 20	" ..	48119	McLeod & McBain, Ingersoll	¾ "	30	.....	Gorman-Eckert Co., London.	"Crest" Brand
" 20	" ..	48122	W. I. Hogarth, Ingersoll.	¾ "	23	Unknown.....	Unknown.....	.....

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.			
Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.			
3·90	Pepper tissues only	51413	Genuine.
1·80	" "	51414	"
2·52	" "	51415	"
1·00	" "	51416	"
2·10	" and foreign stone cells.	51417	Adulterated.
2·40	" only...	51418	Genuine.
2·20	" and foreign stone cells	51419	Adulterated
2·30	" only...	51420	Genuine.

JNO: TALBOT, INSPECTOR

1·20	Pepper tissues only	18102	Genuine.
1·30	" "	18104	"
1·30	" "	48106	"
1·10	" "	48108	"
2·20	" "	48110	"
2·74	" and excess of foreign stone cells.	48112	Adulterated.
1·80	" and slight excess of foreign stone cells	48113	Doubtful.
1·20	" only...	48116	Genuine.
1·60	" "	48117	"
1·44	" "	48119	"
1·58	" "	48122	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF WINDSOR—
1912. Sept. 21	Ground White pepper.	48124	C. W. Reynolds, Pottersburg...	¾ lb	30	.....	Gorman-Eckert Co., London.	.....
" 21	" ..	48125	Gorman Eckert Co., London.	¾ "	25	.....	Gorman Eckert Co., London.	"Forest City" Pure White Pepper.
" 21	" ..	48126	I.X.L. Spice & Coffee Co., London.	¾ "	20	.....	I. X. L. Spice & Coffee Co., London.	"Sweetheart" Pure White Pepper.
" 12	" ..	48288	White & Co., Woodstock, Ont.	¾ "	30	.....	White Swan S. & C. Co., Toronto.	.....
" 12	" ..	48290	Wm. Pullen, Woodstock, Ont.	¾ "	30	.....	Unknown.....	.....
" 12	" ..	48293	Lewis & Co., Woodstock, Ont.	¾ "	30	.....	Todhunter & Mitchell, Toronto.	.....
" 19	" ..	48295	W. A. Munn, St. Thomas.	¾ "	30	.....	Gorman & Eckert, London.	
" 19	" ..	48298	Ideal Co-op. Association, St. Thomas.	¾ "	30	Unknown.....	Unknown.....	.....
" 19	" ..	48299	Moylan & Moylan.	¾ "	30	.....	Gorman Eckert Co., London.	.....
								DISTRICT OF MANITOBA—
Sept. 19	Ground White Pepper.	48676	C. A. Whitman, Emerson.	¾ lb..	20	Unknown.....	Unknown.....	.....
" 20	" ..	48677	Campbell Bros. & Wilson, Winnipeg.	¾ " ..	Nil.	Vendors.....	.....	.....
" 20	" ..	48678	The Dyson Co., Winnipeg.	¾ " .	"	"	.....	.....
" 20	" ..	48679	The White Star Mfg. Co., Winnipeg.	¾ " ..	"	"	.....	.....
" 20	" ..	48680	The Gold Standard Mfg. Co., Winnipeg.	¾ " ..	"	"	.....	.....
" 23	" ..	48681	P. Nelson, Winnipeg.	¾ " ..	30	.....	.....	.....
" 23	" ..	48682	W. H. Morgan, Winnipeg.	¾ " ..	30	.....	The Codville Co., Winnipeg.	.....
" 23	" ..	48683	Western Mercantile Co., Winnipeg.	¾ " ..	30	.....	.....	.....
" 24	" ..	48684	P. J. Foley & Co., Stonewall.	¾ " ..	30	.....	The Jobin Marrin Co., Winnipeg.	.....
" 24	" ..	48685	G. Montgomery Stonewall.	¾ " ..	30	.. ..	.....	.....
" 24	" ..	48686	I. Geaser, Stonewall.	¾ " ..	30	.....	Campbell Bros. & Wilson Co., Winnipeg.	.....

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.				
Total Ash.	Miscroscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.			
1·24	Pepper tissues only.	48124	Genuine.
1·20	" "	48125	"
1·30	" "	48126	"
2·00	" "	48288	"
1·26	" "	48290	"
1·00	" "	48293	"
1·24	" "	48295	"
4·60	" " Black Pepper	48298	"
1·30	" "	48299	"
A. C. LARIVIERE, INSPECTOR.			
1·42	Pepper tissues only	48676	Genuine.
1·20	" "	48677	"
1·36	" "	48678	"
1·80	" "	48679	"
3·00	" "	48680	"
2·04	" wheat starch and other foreign starches	48681	Adulterated.
3·50	" only	48682	Genuine.
1·52	" "	48683	"
1·90	" and wheat starch	48684	Adulterated.
1·12	" only	48685	Genuine.
1·30	" "	48686	"

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF MANITOBA—								
1912 Sept. 25	Ground White pepper.	48687	C. Finkleman, Selkirk.	¾ lb..	25			
" 25	" ..	48688	W. Robinson & Co., Ltd., Selkirk.	¾ " ..	30			
" 25	" ..	48689	Shepard, Peers Co., Selkirk.	¾ " ..	30			
" 25	" ..	48690	W. Epstein, Selkirk.	¾ " ..	30			
" 26	" ..	48691	I. Turkletop, Beausejour.	¾ " ..	30			
Oct. 1	" ..	48692	D. G. Macdonald, Portage La Prairie.	¾ " ..	30		The Jobin Marrin Co., Ltd., Winnipeg.	
" 1	" ..	48693	O'Reilly & Co., Portago La Prairie.	¾ " ..	30			
" 2	" ..	48694	Smith & Burton Brandon.	¾ " ..	30			
" 3	" ..	48695	Brebber & Tillp Oak Lake.	¾ " ..	30		Campbell Bros. & Wilson, Winnipeg.	
DISTRICT OF NELSON—								
Sept. 3	Ground White Pepper.	49690	Bell Trading Co., Nelson, B.C.	¾ lb..	30	W. Braid & Co., Vancouver, B.C.		
" 6	" ..	49702	G.B.Armstrong Merritt, B.C.	¾ " .	30	Kelly-Douglas Co., Vancouver, B.C.		
" 6	" ..	49712	Merritt Merc., Merritt, B.C.	¾ " .	30	W. Braid & Co., Vancouver, B.C.		
" 6	" ..	49713	Merritt Ind. & Co-op. Soc., Merritt, B.C.	¾ " .	20	W. K. Malkin, & Co., Vancouver, B.C.		
" 9	" ..	49720	L. C. Masson, Revelstoke, B.C.	¾ " .	30	Kelly-Douglas Co., Vancouver, B.C.		
" 9	" ..	49725	Bourne Bros., Revelstoke, B.C.	¾ " .	40	Empress Mfg. Co., Vancouver, B.C.		
" 9	" ..	49734	D. Gallicano, Revelstoke, B.C.	¾ " .	30	Kelly-Douglas Co., Vancouver, B.C.		
" 10	" ..	49737	C. B. Hume & Co., Revelstoke, B.C.	¾ " .	40	Empress Mfg., Co., Vancouver, B.C.		
" 10	" ..	49742	J. Guilletto, Revelstoke, B.C.	¾ " .	30	Kelly-Douglas Co., Vancouver, B.C.		
" 23	" ..	49746	C. A. Warren, Golden, B.C.	¾ " .	30	W. H. Malkin & Co., Vancouver, B.C.		

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.			
2·16	Pepper tissues only	48687	Genuine.
1·20	" and wheat starch...	48688	Adulterated.
1·08	" only	48689	Genuine.
1·08	" "	48690	"
4·10	" " (Black pepper).	48691	"
1·40	" and wheat starch	48692	Adulterated.
3·44	" only...	48693	Genuine.
1·32	" "	48694	"
1·18	" "	48695	"

THOS. PARKER, INSPECTOR.

1·10	Pepper tissues only...	49690	Genuine.
1·70	Pepper tissues and wheat starch.	49702	Adulterated.
1·04	Pepper tissues only ...	49712	Genuine.
1·10	" "	49713	"
1·30	" "	49720	"
1·48	" "	49725	"
1·54	Pepper tissues and wheat starch.	49734	Adulterated.
1·22	Pepper tissues only....	49737	Genuine.
1·34	Pepper tissues and wheat starch.	49742	Adulterated.
1·50	Pepper tissues only.....	49746	Genuine.

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
DISTRICT OF NELSON—								
1912.								
Sept. 23	Ground White pepper.	49753	H. G. D. Parson, Ltd., Golden, B.C.	3 tins.	30	Empress Mfg. Co., Vancouver, B.C.		
" 23	" ..	49760	C. R. Lumber Co., Golden, B.C.	¾ lb..	35	W. Braid & Co., Vancouver, B.C.		
" 23	" ..	49767	Rolston & Mitchell, Golden, B.C.	3 tins.	30	Empress Mfg. Co., Vancouver, B.C.		
" 24	" ..	49769	Field Trading Co., Field, B.C.	¾ " .	30	Campbell, Wilson & Horne, Calgary.		
" 25	" ..	49772	C. B. Hume & Co., Arrowhead, B.C.	¾ " .	30	Empress Mfg. Co., Vancouver, B.C.		
" 25	" ..	49777	Reid & Young, Arrowhead, B.C.	¾ " .	30	Kelly-Douglas Co., Vancouver, B.C.		
Oct. 1	" ..	49786	Citizens' Co-op. Ass'n, Nelson, B.C.	¾ " .	30	Empress Mfg. Co., Vancouver, B.C.		
" 1	" ..	49787	J. A. Irving, Nelson, B.C.	¾ "	30	Empress Mfg. Co., Vancouver, B.C.		
" 1	" ..	49790	Hudsons Bay Co., Nelson, B.C.	¾ "	30	Vendors		
" 1	" ..	49791	Christie & Benson, Nelson, B.C.	¾ "	40	Empress Mfg. Co., Vancouver, B.C.		
DISTRICT OF VANCOUVER—								
Sept. 16	Ground White Pepper..	38359	Smythe & Richards, Vancouver, B.C.	¾ lb..	30	Wm. Braid & Co., Vancouver, B.C.		
" 16	" ..	38360	Walford & Roney, Granville St., Vancouver, B.C.	¾ " ..	30	Wm. Braid & Co., Vancouver, B.C.		
" 16	" .	38361	R. Shilling, Seymour & Helmken Sts., Vancouver, B.C.	¾ " ..	25	Empress Mfg. Co., Vancouver, B.C.		
" 16	" ..	38362	W. H. Walsh & Co., Ltd., Seymour & Davie Vancouver, B.C.	¾ " ..	30	Wm. Braid & Co., Vancouver, B.C.		
" 16	" ..	38363	Halpins' Grocery, 116 Granville St., Vancouver, B.C.	¾ " ..	30	Empress Mfg. Co., Vancouver, B.C.		

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.			Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.	No. of Sample.	
Concluded.			
1·24	Pepper tissues only	49753	Genuine.
1·18	" "	49760	"
1·18	" "	49767	"
1·40	" "	49769	"
1·56	" "	49772	"
1·26	" "	49777	"
1·02	" "	49786	"
1·22	" "	49787	"
1·32	Pepper tissues and maize starch	49790	Adulterated.
1·20	Pepper tissues only	49791	Genuine.
J. F. POWER, INSPECTOR.			
1·10	Pepper tissues only	38359	Genuine.
1·06	" "	38360	"
1·02	" "	38361	"
1·30	" "	38362	"
1·24	" "	38363	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
						DISTRICT OF VANCOUVER—		
1912 Sept. 16	Ground White pepper.	38364	Vancouver Grocery Co., Nelson & Granville Sts., Vancouver, B.C.	¾ lb..	30	.....	.....	.....
" 17	" ..	38365	A. C. Bartig, 8th Ave. & Granville St., Vancouver, B.C.	¾ " ..	35	Kelly, Douglas & Co., Vancouver, B.C.	.....	.....
" 17	" ..	38366	A. MacFarlane, 1469 Broadway W., Vancouver, B.C.	¾ " ..	30	Kelly, Douglas & Co., Vancouver, B.C.	.....	.....
" 17	" ..	38367	White, Thompson Co., South Granville St., Vancouver, B.C.	¾ " ..	30	Empress Mfg. Co., Vancouver, B.C.	.....	.....
" 17	" ..	38368	London Grocery Co., Sixth Ave. & Granville St., Vancouver B.C.	¾ " ..	30	Kelly, Douglas & Co., Vancouver, B.C.	.....	.....
" 17	" ..	38369	Gruchy & Carlaw, Fifth ave. & Grainville, Vancouver, B.C.	"	30	Empress Mfg. Co., Vancouver, B.C.	.....	.....
" 18	" ..	38370	Turners Grocery Pender & Hornby Sts. Vancouver, B.C.	"	25	Kelly Douglas & Co., Vancouver B.C.	.....	.....
" 18	" ..	38371	A. & C. Grocery 909 Georgia St Vancouver, B.C	3 tins	30	Kelly Douglas & Co., Vancouver, B.C.	.....	'Nabob,' Brand contains nothing but spice of finest quality.
" 18	" ..	38372	McTaggart & Co., Robson & Granville Sts., Vancouver, B.C.	¾ lb.	30	Kelly Douglas & Co., Vancouver, B.C.	.....	.....
" 18	" ..	38373	Hudsons Bay Co. Vancouver B.C.	"	30	Wm. Braid & Co., Vancouver B.C.	.....	.....
" 18	" ..	38374	Mills & McAdam 2039 4th Ave. W. Vancouver B.C.	"	30	Unknown.....	Hudsons Bay Co.	
" 18	" ..	38375	J. S. Hirst 1944 Maple St. Vacnouver, B.C.	3 tins	30	W. H. Malkin Co. Vancouver B.C.	.....	.....
" 18	" ..	38376	Cook, Bros. 1619 4th Ave. W., Vancouver, B.C.	¾ lb.	20	W. H. Malkin Co. Vancouver, B.C.	.....	.....

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.

Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Continued.			
1·24	Pepper tissues and foreign starch (probably maize)	38364	Adulterated.
1·06	Pepper tissues only	38365	Genuine.
1·14	" "	38366	"
1·18	" "	38367	"
0·86	" "	38368	"
1·40	" "	38369	"
1·04	" "	38370	"
1·22	" "	38371	"
1·20	" "	38372	"
1·60	" "	38373	"
1·12	" "	38374	"
0·88	" "	38375	"
1·24	" "	38376	"

BULLETIN No. 250—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor: Manufacturer.	Furnisher.	Inspectos' Report (Is not an expression of opinion.)
DISTRICT OF VANCOUVER—								
1912 Oct. 18	Ground White pepper.	38377	David Spencer Ltd., Vancouver, B.C.	¾ lb	30	Kelly Douglas & Co., Vancouver, B.C.	.....	.....
" 18	" ..	38378	H. A. Edgett C Ltd., Vancouver B.C.	¾ "	30	Wm. Braid, & Co., Vancouver, B.C.	.....	.....
DISTRICT OF VICTORIA—								
Sept. 10	Ground White Pepper.	49218	Windsor Gro- Co., 817Govt. st., Victoria, B.C.	¾ lb	35	.....	Pioneer Coffee & Spice Mills, Victoria, B.C.	.....
" 11	" ..	49219	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	¾ "	30	.....	Wm. Braid &... Co., Vancouver, B.C.	.....
" 12	" ..	49220	Copas & Young, 631 Fort st., Victoria, B.C.	¾ "	20	.....	Wm. Braid & Co., Vancouver, B.C.	.....
" 16	" ..	49221	Acton Bros.,1317 Douglas st., Victoria, B.C.	¾ "	40	.....	Pioneer Coffee& Spice Mills, Victoria, B.C.	.....
" 16	" ..	49222	H. & K. Grocery, 1425 Douglas st., Victoria, B.C.	¾ "	30	.....	Pioneer Coffee& Spice Mills, Victoria, B.C.	.....
" 18	" ..	49223	D. H. Ross & Co.,1317Govt. st., Victoria, B.C.	¾ "	40	.....	Wm. Braid & Co., Vancouver, B.C.	.....
" 19	" ..	49224	Harrison & McDonald, 1218 Douglas st., Victoria, B.C.	¾ "	30	.....	Empress Mfg. Co., Vancouver, B.C.	.....
" 20	" ..	49225	F. E. Plummer, 1118 Quadra st., Victoria, B.C.	¾ "	30	.....	Empress Mfg. Co., Vancouver, B.C.	.....
" 24	" ..	49226	E. G. Bailey,758 Fort st., Victoria, B.C.	¾ "	40	.....	Empress Mfg. Co., Vancouver, B.C.	.....
" 25	" ..	49227	Erskine & Co., 861 Johnston st., Victoria, B.C.	¾ "	30	.....	R. P. Rithet & Co., Victoria, B.C.	.....
Oct. 15	" ..	49241	Henry W. Driver, 856 Yates st., Victoria, B.C.	¾ "	25	.....	W. J. Jameson, Coffee Co., Vancouver, B. C.	.....
" 15	" ..	49242	W. A. Jamieson Coffee Co.,754 Broughton st., Victoria, B.C.	¾ "	30	.....	Dunn & Co., Hamilton, Ont.	.....

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.			
Total Ash.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.			
1·00	Pepper tissues only	38377	Genuine.
1·10	" "	38378	"
D. O'SULLIVAN, INSPECTOR.			
1·34	Pepper tissues only	49218	Genuine.
1·12	" "	49219	"
1·00	" "	49220	"
1·06	" "	49221	"
1·10	" "	49222	"
1·16	" "	49223	"
1·20	" "	49224	"
1·06	" "	49225	"
1·12	" "	49226	"
1·04	" "	49227	"
1·04	" "	49241	"
1·20	" "	49242	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF VICTORIA—
1912 Oct. 17	Ground White pepper.	49243	H. Smith, View st., Victoria, B.C.	4¾ lb	30	.....	Pioneer Coffee & Spice Mills, Victoria, B.C.	.....
" 17	" ..	49244	H. O. Kirkham, 741 Fort st., Victoria, B.C	¾ "	30	.....	Kelly Douglas & Co., Ltd., Vancouver, B.C.	.....
" 18	" ..	49245	Woods & White, 1309 Gladstone ave., Victoria, B.C.	¾ "	30	.....	Pioneer Coffee & Spice Mills, Victoria, B.C.	.....
" 18	" ..	49246	J. Renouf, Gladstone & Stanley ave., Victoria, B.C.	¾ "	30	.....	Empress Mfg. Co., Vancouver, B.C.	.....
" 18	" ..	49247	E. B. Jones, 1800 Cook st., Victoria, B.C.	¾ "	30	.....	Kelly Douglas & Co., Ltd., Vancouver, B.C.	.....
" 18	" ..	49248	Charles Richards, Cook & Mears sts., Victoria, B.C.	¾ "	30	.....	Pioneer Coffee & Spice Mills, Victoria, B.C.	.....
" 18	" ..	49249	Linden Grocery, Linden ave. & May st., Victoria, B.C.	¾ "	40	.....	Empress Mfg. Co., Victoria, Vancouver, B.C	.....
" 18	" ..	49250	Pioneer Coffee & Spice Mills, 641 Pembroke st., Victoria, B.C.	¾ "	20	Vendors.....	.....	.....

SESSIONAL PAPER No. 14

GROUND WHITE PEPPER.

Results of Analysis.			Remarks and Opinion of the Chief Analyst.
Total Ash.	Microscopical Examination.	No. of Sample.	
Concluded.			
1·16	Pepper tissues only	49243	Genuine.
2·04	Pepper tissues and excess of foreign stone cells	49244	Adulterated.
1·26	Pepper tissues only	49245	Genuine.
1·08	" "	49246	"
1·20	" "	49247	"
1·06	" "	49248	"
1·18	" "	49249	"
1·28	" "	49250	"

APPENDIX O.

BULLETIN No. 251—GROUND CINNAMON AND CASSIA.

Ottawa, March 5, 1913.

Wm. Himsworth, Esq.,
Acting Deputy Minister of Inland Revenue.

Sir,—I beg to submit to you herewith a report upon 250 samples purchased through out Canada in September and October of last year, as Cinnamon and Cassia. One hundred and thirty-eight (138) samples were sold as Cinnamon and one hundred and twelve (112) as Cassia.

The last inspection of these articles was made in November and December of 1906, and reported as Bulletin No. 138.

The introductory remarks there published may be repeated here, as fully descriptive of what is known regarding Cinnamon and Cassia in commerce.

Cinnamon and *Cassia* are the dry barks of trees which belong to the same botanical genus, *Cinnamomum*. Cinnamon is the bark of C. Zeylanicum, chiefly grown in Ceylon and the East Indies; Cassia is the bark of C. Cassia, chiefly grown in China and India. The former bark is thinner, lighter in colour and exists (commercially) in smaller rolls than Cassia bark. It is sufficiently easy to distinguish the two articles, in the unground state; and there is a considerable difference in price between whole cinnamon and whole cassia. The botanical elements of the two are, however, practically identical; and, in the finely ground state, it becomes a difficult, if not an impossible thing, to discriminate between them. The darker colour of Cassia is almost the only distinctive character that remains.

Whether cassia is inferior to cinnamon for flavouring purposes, in cookery, is an open question. The general impression is that cinnamon is preferable. Its higher price is doubtless due to this preference. At the same time it is certain that much, if not most, of the ground cinnamon of commerce, is really ground cassia.

Several grinders distinctly label their goods with the word *Cassia*; and it is probable that the same spicemen put on the market a higher priced article under the name *Cinnamon*; but of this I have no conclusive proof. It is however quite certain that the spice in question is known to most domestic users as *Cinnamon*; while the term *Cassia* conveys a very vague meaning, or no meaning whatever. Throughout Quebec the article known as *Canelle*, which means cinnamon as distinguished from cassia, to which belongs the term *Casse*, seldom mentioned except as a drug.

Under these circumstances, it will be seen that a discrimination between cinnamon and cassia, as spices, is difficult to maintain. It is open to question how far we may take the darker colour of cassia, as evidence of its presence.

The difficulty of distinguishing between cinnamon and cassia, in the ground state, is recognized by the Committee of Standards at Washington, as shown by the following definitions, proclaimed as legal for the United States in June, 1906 :

Cinnamon is the dried bark of any species of the genus *Cinnamomum*, from which the outer layers may or may not have been removed.

True Cinnamon is the dried inner bark of *Cinnamomum Zeylanicum*, Breyne.

Cassia is the dried bark of various species of *Cinnamomum*, other than *Cinnamomum Zeylanicum*, from which the outer layers may or may not have been removed.

Cassia buds are the dried, immature fruit of species of *Cinnamomum*.

Ground Cinnamon, Ground Cassia, is a powder consisting of Cinnamon, Cassia or Cassia buds, or a mixture of these spices, and contains not more than six (6) per cent of total ash, and not more than two (2) per cent of sand.

So far as admixture of Cassia is concerned, I do not think that the present state of our knowledge justifies me in pronouncing it an adulteration of the spice known as Ground Cinnamon. This aspect of the matter must be left open for the present.

The results of the present inspection are as follows :—

Apparently genuine	198
Adulterated	12
Doubtful	14
Samples lost or collected by mistake	4
Ash abnormal	22
	250

Adulteration consists in the presence of matters foreign to Cinnamon or Cassia, and is declared under Section 3 (a) and (b) of the Adulteration Act.

When the amount of foreign matter is inconsiderable, and possibly due to mistake, or unintentional carelessness I have used the word doubtful.

Abnormal ash in the absence of legal Standards for the article, cannot be declared as adulteration.

It will be necessary to establish standards for Cinnamon and Cassia, particularly as regards ash content ; and this matter will be kept in view by your Advisory Board.

The report now furnished will enable us to arrive at a decision.

I beg to recommend publication of this report as Bulletin No. 251.

I have the honour to be, Sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 251—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1912.							
Sept. 13	Ground Cinnamon.	46861	Jno. P. Mott & Co., Halifax, N.S.	¾ lb.	Nil.	Vendors	
" 13	"	46862	Nat. Drug and Chem. Co., Halifax, N.S.	¾ "	25	"	
" 16	"	46863	Morrison & Williams, Halifax, N.S.	¾ "	22	D. A. Morrison, Amherst, N.S.	Manufacturer
" 17	"	46864	Jas. Scott & Co., Halifax, N.S.	¾ "	30	W. H. Schwartz & Sons, Halifax, N.S.	Manufacturers
" 17	"	46865	Bauld Bros., Ltd., Halifax, N.S.	¾ "	24	" "	"
" 19	"	46866	W. H. Schwartz & Sons, Halifax, N.S.	¾ "	20	Vendors	
" 19	"	46867	Chisholm & Co., Halifax, N.S.	¾ "	19	J. P. Mott & Co., Halifax, N.S.	Manufacturers
" 19	"	46868	Dillon Bros., Halifax, N.S.	¾ "	15	" "	"
" 24	"	46969	Yerxas, Yarmouth, N.S.	¾ "	30	White Swan Co., Toronto, Ont.	"
Oct. 8	"	46870	G. A. Orman, Dartmouth, N.S.	¾ "	30	Unknown	
DISTRICT OF PRINCE EDWARD ISLAND—							
Sept. 6	Ground Cinnamon.	46277	R. T. Maddigan & Co., Char'lte'town, P.E.I.	¾ lb.	30	Jno. P. Mott & Co., Halifax, N.S.	
" 10	"	46278	The 2 Macs, Charlottetown, P.E.I.	¾ "	70	Lymans Ltd., Montreal.	
" 10	"	46279	The McKinnon Drug Co., Charlottetown, P.E.I.	¾ "	48	Unknown	
" 12	"	46280	A. J. Warren, Charlottetown, P.E.I.	¾ "	24		J. A. Farquharson, Ch'town, P.E.I.
" 12	"	46281	W. W. Walker, Charlottetown, P.E.I.	¾ "	30		Carvell Bros., Ch'town, P.E.I.
" 13	"	46282	J. G. Jamieson, Charlottetown, P.E.I.	¾ "	90	Lymans Ltd., Montreal.	
" 17	"	46283	Geo. Forbes, Vernon River Bridge, P.E.I.	¾ "	24	Unknown	
" 1	"	46284	Gourlies Ltd., Summerside, P.E.I.	¾ "	30	Nat. Drug Co., Halifax, N.S.	
" 1	"	46285	Sinclair & Stewart, Summerside, P.E.I.	¾ "	30	Unknown	
" 3	"	46286	J. J. Hughes, Souris, P.E.I.	¾ "	30	Dearborn & Co., St. John, N.B.	

SESSIONAL PAPER No. 14

GROUND CINNAMON.

Inspector's Report. (Is not an expression of Opinion).	Results of Analysis. Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.	No. of Sample	Remarks and Opinion of the Chief Analyst.
R. J. WAUGH, INSPECTOR.					
	p. c.	p. c.			
	4·47	1·03	No foreign tissues	16861	Apparently genuine.
	3·73	0·20	"	16862	"
	8·13	4·00	"	16863	Total and insoluble ash high.
	3·74	1·02	"	16864	Apparently genuine.
	3·40	0·29	"	16865	"
	3·11	0·05	"	16866	"
	4·74	0·40	"	16867	"
	4·98	0·69	"	16868	"
	3·39	0·72	"	16869	"
	3·46	0·96	"	16870	"
WM. A. WEEKS, INSPECTOR.					
	4·77	0·75	No foreign tissues	16277	Apparently genuine.
	7·95	4·36	Some outer bark tissue	16278	Total and insoluble ash high.
After sample was purchased and labelled as Cinnamon, vendor said it was "Cassia Cinnamon."	5·54	1·84	No foreign tissues	16279	Apparently genuine.
	3·04	0·64	"	16280	"
	4·45	0·79	"	16281	"
	5·98	1·34	"	16282	"
	3·14	1·12	"	16283	"
	4·53	1·29	"	16284	"
	5·08	1·95	Some outer bark tissues	16285	"
	3·59	0·18	No foreign tissues	16286	"

BULLETIN No. 251—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF NEW BRUNSWICK—				
1912.							
Sept. 4	Ground Cinnamon	50450	Dearborn & Co., St. John, N.B.	¾ lb.	21	Vendors	
" 4	"	50451	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	¾ "	21	"	
" 4	"	50452	G. E. Barbour Co., Ltd., St. John, N.B.	¾ "	26	"	
" 5	"	50453	H. W. Cole, Ltd., St. John, N.B.	¾ "	27	"	
" 5	"	50454	McCready & Son, Ltd., St. John, N.B.	¾ "	18	"	
Oct. 5	"	50455	B. Beveridge, Andover, N.B.	3 pkgs	30	Baird & Peters, St. John, N.B.	
" 7	"	50456	H.N.Dickinson, Perth, N.B.	3 "	30	G. E. Barbour Co., Ltd., St. John, N.B.	
" 16	"	50457	J. T. Ryan, Moncton, N.B.	¾ lb.	30		Jones & Schofield St. John, N.B.
" 18	"	50458	Yerxa Grocery Co., Ltd., Chatham, N.B.	¾ "	27	Unknown	Unknown
" 19	"	50459	A. J. Meahan, Bathurst, N.B.	3 pkgs	24		H. W. Cole, Ltd St. John, N.B.
			DISTRICT OF QUEBEC—				
Sept. 3	Ground Cinnamon	37221	Eudore Delisle, 2 Ave. Tacherean, Quebec.	¾ lb.	30	Herron & Leblanc	Mfrs., Montreal.
" 5	"	37222	W. Cantin, 133 Rue du Pont, Quebec.	¾ "	30	Unknown	Unknown
" 6	"	37223	G. Gingras, 268 Rue du Roie, Quebec.	¾ "	30	"	J. B. Reneaud & Cie., Quebec.
" 9	"	37224	Cantin Frere, 271 Rue Joseph, Quebec.	¾ "	30	"	
" 10	"	37225	C. S. Riverin, 50 Rue de la Couronne, Quebec.	¾ "	30	Litster Pure Food Co., Toronto.	Mfrs
" 11	"	37226	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	¾ "	30	Unknown.	Unknown
" 12	"	37227	Arthur Drolet, 714 Rue St. Valier, Quebec.	¾ "	30	"	Herron & Leblanc, Montreal.
" 13	"	37228	A. Rinfret, 414 Rue St. Joseph, Quebec.	¾ "	30	"	Unknown
" 16	"	37229	Hamel & Bedard, 728 Rue St. Joseph, Quebec.	⅔ "	30	Litster Pure Food Co., Toronto.	Mfrs
" 17	"	37230	V. Lacasse & Cie, 7 Rue St. Clair.	¾ "	30	Unknown	Whitead & Turner.

SESSIONAL PAPER No. 14

GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst
	p.c.	p.c.			
	3·06	0 59	Some dark coloured tissues of outer bark.	50150	Apparently genuine.
	1 90	0 01	Some dark coloured tissues of outer bark; principally starch.	50151	Ash very low: Apparently genuine.
	3 74	1 15	No foreign tissues	50152	Apparently genuine
	1 31	0 79	"	50153	"
	3 09	0 08	"	50154	"
"Reindeer" Brand	3 60	0 08	"	50155	"
"Acorn" Brand	3 52	1 25		50156	
	3 47	1·07		50157	"
	9 92	5 48		50158	Total and insoluble ash high.
"Thistle" Brand	3 02	0 64		50159	Apparently genuine.

F. X. W. E. BELAND, INSPECTOR.

	8 08	1 29	Some outer bark tissues.	37221	Total and Insoluble ash high.
	4 66	1 76	"	37222	Apparently genuine.
	5·10	2 20	Some foreign starch (pea starch) and other foreign tissues.	37223	Insoluble ash high; adulterated.
	4 60	1 72	" "	37224	Adulterated with foreign starch and tissues.
	6·69	3 05	No foreign tissues	37225	Total and insoluble ash high.
	2 62	0·21	"	37226	Apparently genuine.
	1 95	0·09	" " principally starch.	37227	Ash abnormally low; apparently genuine.
	6 09	3 02	A large amount of foreign starches apparently pea and wheat.	37228	Insoluble ash high; adulterated.
	5 06	1 80	No foreign tissues	37229	Apparently genuine.
	5 15	2·23	" "	37230	Insoluble ash high.

BULLETIN No. 251—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF ST. HYACINTHE—							
1912.							
Sept. 16	Ground Cinnamon	1465	W. J. Watkins, St. G. de Grantham	¾ lbs.	27	.....	L. Chaput fils & Cie, Montreal.
" 16	"	1466	Cyprien Gaumont, St. Bonaventure.	¾ "	18	.....	Schooner & Cie., Pierreville.
" 17	"	1467	Laperriere & Filo, Pierreville.	¾ "	19	Herron Leblanc, Montreal.	.....
" 17	"	1468	B. H. Belland, Yamaska, Ouest.	¾ "	30	.....	Lacalle & Gendreau Montreal.
" 20	"	1469	M. Proux, St. Aime.	¾ "	30	Unknown.....	Unknown.....
" 24	"	1470	Ed. Bienvenn, Farnham.	¾ "	30	"	" .....
" 25	"	1471	J. A. Fortier, St. Sebastien.	¾ "	20	.....	L. Chaput Fils & Cie., Montreal.
" 27	"	1472	A. Ledoux, St. Armand.	¾ "	23	.....	Hudon & Orsali, Montreal.
Oct. 2	"	1473	A. N. Pierre, Megantic	¾ "	23	J. J. Duffy & Co., Montreal.	Whitehead & Turner, Quebec.
" 8	"	1474	A. Bastien, Racine Ely	¾ "	30	Unknown.....	Unknown. .....
DISTRICT OF MONTREAL—							
Oct. 7	Ground Cinnamon	51021	Thos. J. Muir, 4500 St. St, Cath. St. Westmount.	¾ lbs.	30	.....	.....
" 8	"	51022	R. Bernard, 91 Lagauchitiere St., Montreal	¾ "	30	J. V. Boudrias Ltd., Montreal.	.....
" 8	"	51023	Theo. Rochon, 210 City Hall Ave., Montreal.	¾ "	30	Unknown.....	.....
" 11	"	51024	Lewis Reese, 343 Church Ave., Verdum, P.Q.	¾ "	30	.....	.....
" 11	"	51025	Jos. Bonenfont, 428 Church Ave., Montreal.	¾ "	27	.....	.....
" 16	"	51026	Annex Prov. Co., 1750 Hutchison St., Montreal.	¾ "	30	.....	.....
" 17	"	51027	Ceo. Dixon, Huntingdon, P. Q.	¾ "	27	.....	.....
" 18	"	51028	F. J. Paquette, 385 BleureySt., Montreal.	¾ "	30	.....	.....
" 19	"	51029	E. Paquette, 39 Mount Royal Ave., East, Montreal.	¾ "	30	.....	.....
" 19	"	51030	J. A. Courtemanche, 24 Rachel St., East, Montreal.	¾ "	30	.....	.....

SESSIONAL PAPER No. 14

GROUND CINNAMON

Inspector's Report, (Is not an expression of opinion.	Results of Analysis. Total Ash	Ash Insoluble in H. Cl.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. C. ROULEAU, INSPECTOR					
	p. c.	p. c.			
	5·53	2·05	No foreign tissues	1465	Apparently genuine
	3·72	1·35	"	1466	"
	4·66	1·97	Some foreign tissues, reticulated cells, etc., unidentified.	1467	Doubtful
	4·73	1·86	No foreign tissues	1468	Apparently genuine
	5·01	1·65	"	1469	"
	4·78	1·67	"	1470	"
	4·61	1·75	"	1471	"
	5·65	0·62	A small amount of turmeric present.	1472	Doubtful.
	5·36	2·58	No foreign tissues	1473	Insoluble ash high.
	3·98	0·82	"	1474	Apparently genuine
J. J. COSTIGAN, INSPECTOR.					
	6·17	1·14	Contains a considerable amount of turmeric.	51021	Doubtful.
	4·98	1·36	Contains a considerable amount of foreign starch and tissues, apparently pea starch.	51022	Adulterated.
	4·28	1·56	Contains a considerable amount of foreign starch and tissues, apparently pea starch.	51023	Adulterated.
	6·69	0·98	Contains a considerable amount of turmeric.	51024	Doubtful.
	6·66	1·08	Contains a considerable amount of turmeric.	51025	"
	6·49	1·15	Contains a considerable amount of turmeric.	51026	"
"White Swan" Brand.	3·26	0·49	No foreign tissues	51027	Apparently genuine.
	3·64	1·03	Some dark colored tissues of outer bark.	51028	"
	4·43	1·53	Some dark colored tissues of outer bark.	51029	"
	4·18	0·92	A small amount of foreign starch apparently pea starch	51030	Doubtful.

BULLETIN No. 251—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF OTTAWA—							
1912.							
Aug. 30	Ground Cinnamon.	50262	J. C. Brown & Co., Vankleek Hill.	¾ lb.	30	Gorman Eckert, London, Ont.	Mfrs
Sept. 4	"	50263	Geo. Agar, Ottawa	¾ "	30		H. N. Bate & Sons, Ottawa.
" 4	"	50264	Alex. Phillips, Ottawa	¾ "	30	Unknown	Unknown
" 5	"	50265	J. B. Bedard, Hull, P.Q.	¾ "	30	"	"
" 5	"	50266	J. E. Ryan & Co., Hull, P.Q.	¾ "	30	C. H. Cochrane & Co., Ottawa.	Mfrs
" 6	"	50267	J. Culbert, Brockville	¾ "	30	Pure Gold Mfg. Co., Ltd., Toronto.	"
" 6	"	50268	A. E. Shaver, Brockville.	¾ "	30	" "	"
" 7	"	50269	McDermott & McCarthy, Prescott.	¾ "	30	J. M. Lowes Co., Ltd., Toronto.	"
" 11	"	50270	Wm. Miller, Ottawa	¾ "	30	Unknown	Unknown
" 18	"	51619	John Kerr, Merrickville.	¾ "	30	"	"
DISTRICT OF KINGSTON—							
Sept. 3	Ground Cinnamon.	50761	J. Campbell, Kingston	¾ lb.	30		Geo. Robertson & Son, Kingston.
" 9	"	50762	S. R. Artis, Belleville.	¾ "	30		J. Sloan & Son, Belleville.
" 9	"	50763	Wallbridge & Clark, Belleville.	¾ "	30		Gunn Munroe Bros., Brantford
" 9	"	50764	C. Hilton, Belleville	¾ "	30		White Swan Co., Toronto.
" 10	"	50765	H. Crozer, Cobourg	¾ "	80		Dalton Bros., Toronto.
" 10	"	50766	N. C. Nichols, Cobourg	¾ "	30		E. Bey Blin Co., Toronto.
" 10	"	50768	F. Rosevear, Port Hope	¾ "	30		F. F. Dalley Co., Hamilton.
" 10	"	50769	W. D. Sephens, Port Hope.	¾ "	35		Gorman Eckert, London.
" 11	"	50770	W. J. Roulty, Peterboro.	¾ "	30		White Swan Co., Toronto.
" 11	"	50792	J. Hill, Peterboro.	¾ "	30		Gorman Eckert, London.

SESSIONAL PAPER No. 14

GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. A. RICKEY, INSPECTOR.					
	p. c.	p. c.			
	3·82	1·11	No foreign tissues	50262	Apparently genuine
	4·30	1·78	"	50263	" "
	4·72	1·96	A large amount of foreign starch and tissues. Pea starch.	50264	Adulterated.
	3·10	0·68	Contains a large admixture of wheat and maize starch. Cocoanut shells, etc.	50265	"
	3·04	0·68	Some dark colored tissues of outer bark.	50266	Apparently genuine
	3·56	0·80	No foreign tissues	50267	" "
	3·64	1·17	A few grains of ginger starch present.	50268	" "
	3·39	0·82	No foreign tissues	50269	" "
	5·69	1·92	A few grains of ginger starch present.	50270	" "
	3·13	0·87	No foreign tissues	51619	" "
JAS. HOGAN, INSPECTOR.					
	1·66	1·80	No foreign tissues	50761	Apparently genuine
	1·31	0·98	"	50762	" "
	3·83	0·49	"	50763	" "
			Sample destroyed in transit	50764	Sample lost
	3·51	0·43	A small amount of foreign tissues including Cocoanut shells.	50765	Doubtful.
	3·33	0·60	No foreign tissues.	50766	Apparently genuine
	5·05	1·31	"	50768	" "
	4·01	1·28	"	50769	" "
	3·52	0·82	"	50770	" "
	3·13	0·80	"	50792	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1912.							
Sept. 13	Ground Cinnamon	51451	Fred Finn, 126 Denison Ave., Toronto.	¾ lb.	27	.....	Pure Gold Mfg. Co., Ltd., Toronto.
" 13	" ..	51452	The Loblaw Store, 406 Queen st. west, Toronto.	¾ "	30	.....	Medland Bros., Toronto.
" 16	" ..	51453	A. Bell, 1906 Queen st. east, Toronto.	¾ "	25	.....	The J. M. Lowes Co., Ltd., Toronto.
" 17	" ..	51454	Good Bros., 1004 Bloor st. west, Toronto.	¾ "	30	.....	Dalton Bros., Toronto.
" 20	" ..	51455	W. L. Bosworth, Newmarket.	¾ "	30	.....	Unknown.....
Oct. 2	" ..	51456	J. A. Eton, 155 King William st., Hamilton	¾ "	30	.....	Balfour, Smye & Co., Hamilton.
" 2	" ..	51457	Chas. Smith, 661 Barton st. east, Hamilton	¾ "	20	.....	W. H. Gillard & Co., Hamilton.
" 2	" ..	51458	J. S. Nicholson, 244 Locke st. south, Hamilton.	¾ "	19	.....	Young & Winfield, Hamilton.
" 2	" ..	51459	Cowalls Grocery (Branch), Queen & Humber sts., Hamilton.	¾ "	30	.....	Supplied from Main Store, 115 John st. south, Hamilton.
" 3	" ..	51460	W. R. Budge, 25 York st., Hamilton.	¾ "	30	.....	Todhunter, Mitchell Co., Tor-
DISTRICT OF WINDSOR—							
Oct. 2	Ground Cinnamon.	48150	C. Maston, Petrolia...	¾ lb.	30	Unknown.....	Unknown.....
" 4	" ..	48172	R. H. Davis, Strath	¾ "	30	.....	Elliott, Marr & Co., London.
" 7	" ..	48173	G. A. Curtis, Simcoe..	¾ "	60	McLaren's, Ltd., Hamilton.	.....
" 7	" ..	48175	R. Edmunds, Simcoe. roy.	¾ "	30	White Swan S. & C. Co., Toronto.	.....
" 7	" ..	48180	G. J. Imeson, Simcoe.	¾ "	30	I. & L. Spice & Coffee Co., London.	.....
" 7	" ..	48187	W. B. Hogarth & Son, Tillsonburg.	¾ "	25	Unknown.....	Unknown.....
" 8	" ..	48189	Imrie & Stewardson...	¾ "	30	.....	Masuret & Co., London.
" 8	" ..	48191	Harold M. Scott & Co., Tillsonburg.	¾ "	30	.....	Geo. Watt & Son, Brantford.

SESSIONAL PAPER No. 14

GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		
H. J. DAGER, INSPECTOR.					
	p. c.	p. c.			
[illegible]	3·87	1·18	No foreign tissues. [illegible]	51451	Apparently Genuine.
[illegible]	3·16	0·96	" [illegible]	51452	"
Pure Ground Cinnamon.	3·61	0·72	" [illegible]	51453	"
[illegible]	3·05	0·83	" [illegible]	51454	"
[illegible]	3·79	0·41	" [illegible]	51455	"
[illegible]	4·02	0·52	"	51456	"
[illegible]	4·10	0·87	"	51457	"
[illegible]	3·60	0·60	" [illegible]	51458	"
[illegible]	4·52	1·42	" [illegible]	51459	"
[illegible]	3·66	0·66	" [illegible]	51460	"
JNO. TALBOT, INSPECTOR.					
[illegible]	3·07	0·48	No foreign tissues [illegible]	48150	Apparently Genuine.
[illegible]	3·52	0·98	Some dark coloured tissues from outer bark.	48172	"
[illegible]	4·21	0·81	No foreign tissues. [illegible]	48173	"
[illegible]	3·46	0·25	" [illegible]	48175	"
[illegible]	4·71	1·24	" [illegible]	48180	"
[illegible]	3·91	1·03	Some dark coloured tissues from outer bark.	48187	"
[illegible]	4·21	0·85	No foreign tissues. [illegible]	48189	"
[illegible]	5·42	1·84	" [illegible]	48191	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MANITOBA—							
1912.							
Sept. 17	Ground Cinnamon.	48711	J. E. Manning, Sargent ave., Winnipeg.	¼ lb.	30	Unknown	Unknown
" 17	"	48712	Conley & Yost, Winnipeg.	¼ "	30	The Dyson Co., Winnipeg.	Mfrs.
" 19	"	48713	M. Shnier, Emerson...	3 tins.	20	The White Star Mfg., Co., Winnipeg.	
" 23	"	48714	P. Nelson, Winnipeg..	¼ lb.	30		
" 23	"	48715	W. H. Morgan, Winnipeg.	¼ "	30		The Codville Co., Winnipeg.
" 23	"	48716	West Mercantile Co., Winnipeg.	¼ "	30		
" 24	"	48717	P. J. Foley & Co., Stonewall.	¼ "	30		The Jobin Marrin Co., Winnipeg.
" 25	"	48718	C. Finkleman, Selkirk	¼ "	25		
" 25	"	48719	W. Robinson & Co., Ltd., Selkirk.	¼ "	30		
" 25	"	48720	W. Epstein, Selkirk...	¼ "	30		
DISTRICT OF NELSON—							
Sept. 3	Ground Cinnamon.	49685	M. Scally, Nelson, B.C.	3 tins.	40	W. Braid & Co., Vancouver.	
" 3	"	49692	Bell Trading Co., Nelson, B.C.	¼ lb.	30	W. Braid & Co., Vancouver.	
" 6	"	49704	G. B. Armstrong, Merritt, B.C.	3 tins.	45	Kelly Douglas & Co., Vancouver.	
" 6	"	49709	Merritt Merc. Co., Merritt, B.C.	¼ lb.	30	W. Braid & Co., Vancouver.	
" 6	"	49715	Merritt Ind. Co. of Socy., Merritt, B.C.	3 tins.	30	W. H. Malkin & Co., Vancouver.	
" 9	"	49721	L. C. Masson, Revelstoke, B.C.	¼ lb.	30	Kelly Douglas & Co., Vancouver.	
" 9	"	49732	B. B. Camozzi, Revelstoke, B.C.	3 tins.	40	Wilson Bros., Victoria, B.C.	
" 9	"	49735	D. Gallicano, Revelstoke, B.C.	¼ lb.	30	W. H. Malkin & Co., Vancouver.	
" 23	"	49755	H. G. Parson, Ltd., Golden, B.C.	3 tins.	45	Kelly Douglas & Co., Vancouver.	
" 23	"	49762	C. R. Lumber Co., Golden, B.C.	¼ lb.	45	Kelly Douglas & Co., Vancouver.	
DISTRICT OF VANCOUVER—							
Sept. 21	Ground Cinnamon	38429	Red Star Grocery, 2,505 Main St., Vancouver, B.C.	¼ lb.	35	Empress M'f'g. Co., Vancouver.	
" 21	"	38430	Efford Bros., 244 Broadway E., Vancouver, B.C.	¼ "	30	Unknown	
" 21	"	38431	Moore's Grocery, 2425 Main St., Vancouver, B.C.	¼ "	30	"	

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GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		
A. C. LARIVIERE, INSPECTOR.					
	p. c.	p. c.			
	4·23	0·40	No foreign tissues	48711	Apparently genuine.
	3·01	0·26	" "	48712	" "
	2·34	0·27	" "	48713	" "
	3·28	0·85	" "	48714	" "
	3·67	1·01	" "	48715	" "
	3·26	0·68	" "	48716	" "
	4·20	0·19	" "	48717	" "
	2·71	0·62	" "	48718	" "
	3·61	1·10	" "	48719	" "
	3·48	0·80	" "	48720	" "
THOS. PARKER, INSPECTOR.					
	3·34	0·06	No foreign tissues	49685	Apparently genuine.
	2·82	0·12	" "	49692	" "
	2·60	0·12	" "	49704	" "
	*	*		49709	Sample lost.
	2·97	0·40	No foreign tissues	49715	Apparently genuine.
	2·60	0·09	" "	49721	" "
	2·82	0·25	" "	49732	" "
	3·76	1·06	Some outer bark tissues	49735	" "
"Nabob"	2·60	0·07	No foreign tissues	49755	" "
"	2·81	0·10	" "	49762	" "
J. F. POWER, INSPECTOR.					
	3·44	0·04	No foreign tissues	38429	Apparently genuine.
	3·26	0·24	" "	38430	" "
	2·65	0·07	" "	38431	" "

* Sample destroyed in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF VANCOUVER—	
1912.							
Sept. 21	Ground Cinnamon	38432	Kelly's Grocery, 2333 Main St., Vancouver, B.C.	¾ lb.	30	Kelly Douglas & Co., Vancouver.	....
" 21	"	38433	F. Filion, Carrol St., Vancouver, B.C.	¾ "	30	Empress M'f'g. Co., Vancouver.	.....
" 23	"	38434	F. Ayling, Cedar Cottage, Vancouver, B.C	¾ "	30	" "	....
" 23	"	38435	Lyon's Grocery, Commerical Drive, Vancouver, B.C.	3 tins.	45	Oriental Mills Co., Vancouver.	....
" 23	"	38436	J. Main, Commercial Drive, Vancouver, B.C.	¾ lb.	30	....	....
" 23	"	38437	Clark's Grocery, Hastings St., E., Vancouver, B.C.	¾ "	35	Kelly Douglas Co., Vancouver.	.....
" 23	"	38438	A. A. Bower, Main St., Vancouver, B.C.	¾ "	30	Empress M'f'g. Co., Vancouver.	....
						DISTRICT OF VICTORIA—	
Sept. 10	Ground Cinnamon	49188	Windsor Grocery Co., 817 Gov't St., Victoria, B.C.	¾ lb.	40	....	Pioneer Coffee and Spice Mills, Victoria, B.C.
" 11	"	49189	The West End Grocery Co., Ltd., Victoria B.C.	3 tins.	30	... .	R. P. Rithet & Co., Victoria, B.C.
" 11	"	49190	Copas & Young, 613 Fort St., Victoria, B.C.	3 "	25	.....	W. Braid & Co., Vancouver.
" 16	"	49191	Acton Bros., 1317 Douglas St., Victoria, B.C.	3 "	30	....	Empress M'f'g. Co., Vancouver.
" 16	"	49192	H. & K. Grocery, 1425 Douglas St., Victoria, B.C.	3 "	30	... .	"
" 19	"	49193	Harrison & McDonald, 1215 Douglas St., Victoria, B.C.	¾ lb	30	... ...	"
" 20	"	49194	F. E. Plummer, 1118 Quadra St., Victoria, B.C.	3 tins.	30	.....	S. Leiser & Co., Victoria, B.C.
" 24	"	49195	E. G. Bailey, 755 Fort St., Victoria, B.C.	3 "	30	.....	W. A. Jameson Coffee Co., Victoria, B.C.
" 25	"	49196	Erskine & Co., 861 Johnston St., Victoria, B.C.	3 "	30	....	"
Oct. 15	"	49197	Henry W. Driver, 856 Yates St., Victoria, B.C.	3 "	30	....	E. R. Durkee, New York.

SESSIONAL PAPER No. 14

GROUND CINNAMON.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		
Concluded.					
	p.c.	p.c.			
... .	2·60	0·04	No foreign tissues.....	38432	Apparently genuine
....	3·29	0·03	" "	38433	" "
....	3·32	0·06	" "	38434	" "
The Spice in this Can is guaranteed to be of the finest quality, full strength and full weight.	2·64	0·14	" "	38435	" "
....	3·61	0·44	Contains foreign tissues and maize starch.	38436	Adulterated.
....	3·56	0·14	No foreign tissues	38437	Apparently genuine.
..... .	3·40	0·17	"	38438	" "
D. O'SULLIVAN, INSPECTOR.					
... .	4·36	1·76	No foreign tissues..... ..	49188	Apparently genuine.
"St. James" Brand.	4·18	1·62	" "	49189	" "
"Anti-Combine" "	2·63	0·11	" " ...	49190	" "
"Empress" "	3·19	0·08	" "	49191	" "
" "	3·13	0·09	" "	49192	" "
....	4·03	1·63	" "	49193	" "
"Lord Roberts" "	4·11	1·53	" "	49194	" "
"Victoria" "	3·51	0·69	" "	49195	" "
" "	4·96	2·12	" "	49196	Insoluble ash high.
"Gauntlet" "	3·08	0·37	" "	49197	Apparently genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NOVA SCOTIA—							
1912.							
Sept. 11	Ground Cassia.	46851	Wentzells Ltd., Halifax, N.S.	¾ lb.	18	J. P. Mott & Co., Halifax, N.S.	Mfrs.
" 11	"	46852	Wm. Moore, Halifax, N.S.	¾ "	21	" "	"
" 13	"	46853	Jno. P. Mott & Co., Halifax, N.S.	¾ "	Nil.	" "	
" 13	"	46854	Nat. Drug & Chem. Co., Halifax, N.S.	¾ "	20	Vendors.	
" 16	"	46855	Morrison & Williams, Halifax, N.S.	¾ "	18	W. H. Schwartz & Sons, Halifax.	Mfrs.
" 17	"	46856	Bauld Bros. Ltd., Halifax, N.S.	¾ "	24	" "	"
" 17	"	46857	Jas. Scott & Co., Halifax, N.S.	¾ "	20	C. H. Cochrane, Ottawa.	"
" 17	"	46858	A. L. Doyle & Co., Halifax, N.S.	¾ "	21	W. H. Schwartz & Sons, Halifax.	"
" 18	"	46859	R. B. Seeton & Co., Halifax, N.S.	¾ "	18	" "	"
" 19	"	46860	W. H. Schwartz & Sons, Halifax, N.S.	¾ "	15	Vendors	
DISTRICT OF PRINCE EDWARD ISLAND—							
Sept. 6	Ground Cassia.	46287	J. G. Jamieson, Charlottetown, P.E.I.	¾ lb.	30	Lyman's, Ltd., Montreal.	
" 7	"	46288	A. Gates & Co., Charlottetown, P.E.I.	¾ "	30	Pure Gold Co., Toronto.	
" 9	"	46289	Coffin & Co., Charlottetown, P.E.I.	¾ "	30	G. D. Barbour, St. John, N.B.	
" 12	"	46290	J. G. Passmore, Charlottetown, P.E.I.	¾ "	30		J. A. Farquharson & Co., Charlottetown, P.E.I.
" 12	"	46291	L. A. Haszard, Charlottetown, P.E.I.	¾ "	30	Schwartz & Sons, Halifax, N.S.	
" 14	"	46292	Reddin Bros., Charlottetown, P.E.I.	¾ "	30	Lyman's Ltd., Montreal.	
" 21	"	46293	Apothecaries Hall Co., Charlottetown, P.E.I.	¾ "	30	" "	
Oct. 1	"	46294	Brace McKay & Co., Summerside, P.E.I.	¾ "	30	Pure Gold Co., Toronto.	
" 3	"	46295	J. J. Hughes, Souris, P.E.I.	¾ "	30	Nat. Drug & Chem. Co., Halifax.	
" 3	"	46296	Mathew & McLean, Souris, P.E.I.	¾ "	24	Dearborn & Co., St. John, N.B.	

SESSIONAL PAPER No. 14

GROUND CASSIA.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		
R. J. WAUGH, INSPECTOR.					
	p. c.	p. c.			
...	2·67	0·50	No foreign tissues	46851	Apparently genuine
...	2·81	0·56	" "	46852	" "
...	3·29	0·53	" "	46853	" "
...	3·35	0·64	" "	46854	" "
...	3·35	0·90	" "	46855	" "
...	3·61	1·10	" "	46856	" "
...	3·29	0·94	" "	46857	" "
...	3·55	1·10	" "	46858	" "
...	3·43	1·00	" "	46859	" "
...	3·74	1·09	" "	46860	" "
WM. A. WEEKS, INSPECTOR.					
...	4·05	0·92	No foreign tissues	46287	Apparently genuine.
...	3·30	0·88	" "	46288	" "
...	3·18	0·78	" "	46289	" "
...	3·94	1·04	" "	46290	" "
...	3·34	0·80	" "	46291	" "
...	4·94	1·45	" "	46292	" "
...	3·86	0·76	" "	46293	" "
...	4·56	1·55	" "	46294	" "
...	1·59	1·41	" "	46295	" "
...	3·83	1·09	" "	46296	" "

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF NEW BRUNSWICK—							
1912.							
Sept. 4	Ground Cassia.	50460	Dearborn & Co., St. John, N.B.	¾ lb.	18	Vendors	
" 4	"	50461	Puddington, Wetmore, Morrison, Ltd., St. John, N.B.	¾ "	14	"	
" 4	"	50462	J. E. Barbour, & Co., Ltd., St. John, N.B.	¾ "	21	"	
" 5	"	50463	H. W. Cole, Ltd., St. John, N.B.	¾ "	18	"	
" 5	"	50464	McCready & Son, Ltd., St. John, N.B.	¾ "	15	"	
" 5	"	50465	L. H. Thorne, St. John, N.B.	¾ "	15	Vendor	
" 25	"	50466	S. V. Skillen, St. Martins, N.B.	¾ "	25	G. S. Barbour Co., Ltd., St. John, N.B.	
Oct. 7	"	50467	Geo. T. Baird Co., Ltd., Perth, N.B.	¾ "	24	Dearborn & Co., St. John, N.B.	
" 16	"	58468	D. A. McBeath, Moncton, N.B.	¾ "	30		F. P. Reid & Co., Moncton.
" 19	"	50469	A.C. Branch, Bathurst, N.B.	3pkgs.	24		Geo. S. De Forest & Sons, Ltd., St. John, N.B.
DISTRICT OF QUEBEC—							
Sept. 4	Ground Cassia.	37231	O. Lacroix, 19 Rue St. Joseph, Quebec.	¾ lb.	30	Lemesurier & Son, Quebec.	J. B. Renaud & Cie.
" 6	"	37232	G. Gingras, 268 Rue de Roie, Quebec.	¾ "	30	McLaren's Hamilton.	M'f'rs
" 11	"	37233	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	¾ "	30	Unknown	Unknown
" 18	"	37234	Alfred Boily, 38 Cote D'Abraham, Quebec.	¾ "	30	Dom. Flour Mills	Herron & Leblanc
" 18	"	37235	J. A. Tremblay, 139 Rue Richelieu, Quebec.	¾ "	30	Integrity Mills, Toronto.	J. B. Reneaud
" 19	"	37236	Jos. Boiteau, 37 Rue Sutherland, Quebec.	¾ "	30	Unknown	N. Turcot et fils
" 19	"	37237	Abel Turcot, 272 Rue St. Jean, Quebec.	¾ "	30	"	Turcot et Frere
" 23	"	37238	J. E. Gregoire, 128 Rue du Pont, Quebec.	¾ "	30	Nat. Coffee and Spice Co., Montreal.	M'f'rs
" 23	"	37239	M. W. Colman, 98 Rue du Pont, Quebec.	¾ "	45	Unknown	S. Harnig, Montreal.
" 23	"	37240	L. F. Martel, 64 Rue du Pont, Quebec.	¾ "	30	Litster Pure Food Co., Toronto.	M'f'rs

SESSIONAL PAPER No. 14

GROUND CASSIA.

Inspector's Report, (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		
J. C. FERGUSON, INSPECTOR.					
	p. c.	p. c.			
.. ..	3·60	1·00	Some dark coloured tissues; bark.	50460	Apparently genuine.
....	7·56	3·62	No foreign tissues.....	50461	Total and insoluble ash high.
....	5 01	1 30	" "	50462	Apparently high.
.. ..	4 56	0·89	" "	50463	" "
.....	3 52	0 13	" "	50464	" "
. ...	2 56	0·20	" " Large proportion of starch.	50465	" "
"Acorn" Brand.	5 80	1·92	No foreign tissues ...	50466	" "
....	3·83	0 32	" "	50467	" "
"Pyramid" Brand.	7·20	3 02	" "	50468	Total and insoluble ash high.
"Honeysuckle" Brand	10·06	5 75	" "	50469	" "
F. X. W. E. BELAND, INSPECTOR.					
....	2·23	0 09	No foreign tissues. Large proportion of starch. (Sample very coarsely ground).	37231	Apparently genuine.
. ...	3 60	0 55	No foreign tissues...	37232	" "
....	4·30	2·17	This sample is allspice.....	37233	Allspice—by mistake.
....	6 98	2 51	No foreign tissues	37234	Total and insoluble ash high.
....	6·61	2 91	" "	37235	" "
.....	7·59	3·16	" "	37236	" "
.....	2·88	0 51	A considerable quantity of l eign, woody and bark tissu	37237	Doubtful.
.....	6·41	1 87	No foreign tissues; appears to be full of dust.	37238	Total ash high.
....	7·17	1·87	" " "	37239	" " doubtful.
....	5·18	1 83	" " "	37240	Doubtful.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF ST. HYACINTHE—				
1912.							
Sept. 16	Ground Cassia.	1476	A. Miquette, St. Pie de Guire.	¾ lb.	15	.....	Cartier & Laramie, St. Francais du Lac.
" 25	" ..	1477	D. H. Conner, Bedford.	¾ " ..	20	Unknown	Unknown .....
" 26	" ..	1478	A. E. Selby, Dunham.	3 tins.	30	.....	Mathewsons Sons, Montreal.
" 26	" ..	1479	J. A. McLaughlin, Cowansville.	¾ lb..	22	Pure Gold Mfg. Co., Toronto.	.....
Oct. 1	" ..	1480	Hubert & Fortier, Sherbrooke East.	¾ " ..	30	The F. F. Dalley Co., Hamilton.	.....
" 2	" ..	1481	J. O. McDonald, Megantic.	3 tins.	30	White Swan S. & C. Co., Toronto.	.....
" 3	" ..	1482	Lovell Bros., Coaticook.	¾ " .	24	Herron Leblanc, Montreal.	.....
" 3	" ..	1483	Gosselin & Paradis, Magog.	¾ lb..	30	.....	E. Paradis, Magog.
" 10	" ..	1484	J. Laundry & Cie, Sherbrooke.	¾ " ..	30	Herron Leblanc, Montreal.	.....
" 14	" ..	1485	E. Lafrance, St. Hyacinthe.	¾ " ..	19	J. V. Boudrias, Montreal.	.....
			DISTRICT OF MONTREAL—				
Oct. 7	Ground Cassia.	51011	W. Biltcliffe, 350 Vict. Ave., Westmount.	¾ lb..	30	.....	.....
" 10	" ..	51012	Deschenes & Picard, Joliette, P.Q.	¾ " ..	30	.....	.....
" 16	" ..	51013	A. E. Sennat, 141 Villeneuve St. West, Montreal.	¾ " ..	30	.....	.....
" 16	" ..	51014	Z. Lapointe, 54 Villeneuve St. W., Montreal.	¾ " ..	30	.....	.....
" 17	" ..	51015	John Smaill, Huntingdon, P.Q.	3 tins.	30	F. F. Dalley Co., Ltd.	.....
" 17	" ..	51016	Pringle, Stark & Co., Huntingdon, P.Q.	¾ lb..	30	.....	.....
" 17	" ..	51017	Geo. Dixon, Huntingdon, P.Q.	¾ " ..	27	.....	.....
" 18	" ..	51018	P. Elliott, 276 Ontario st. W., Montreal.	¾ " ..	30	.....	.....
" 18	" ..	51019	P. Elliott, 276 Ontario st. W., Montreal.	3 tins.	30	Lister Pure Food Co.	.....
" 18	" ..	51020	T. A. Wood & Co., 536 Aylmer, W., Montreal.	¾ lb..	30	S. H. Ewing & Sons..	.....

SESSIONAL PAPER No. 14

GROUND CASSIA.

Inspector's Report. (Is not an expression of Opinion.	Results of Analysis. Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	p. c.	p. c.			
J. C. ROULEAU, INSPECTOR.					
....	4·36	1·36	Contains a small amount of foreign starch and fibres, apparently pea starch.	1476	Doubtful.
.. ..	4·02	0·20	No foreign tissues.....	1477	Apparently genuine.
....	2·12	0·66	" " Large proportion of starch.	1478	"
. ...	3·60	1·24	No foreign tissues. . .	1479	"
. ...	5·36	1·16	" ...	1480	"
. . ..	1·58	1·94	"	1481	.
....	1·49	0·55	. . . .	1482	"
. ....	3·32	0·46	"	1483	"
. . . .	6·34	3·09	Some dark colored tissues of outer bark.	1484	Total and insoluble ash high.
....	3·84	0·40	Contains small amount of foreign starch and fibres, apparently pea starch.	1485	Doubtful.
J. J. COSTIGAN, INSPECTOR.					
. ...	6·15	0·91	Turmeric and other foreign tissues present.	51011	Total ash high. Doubtful
"Imperial" Brand....	9·48	3·00	No foreign tissues. (Looks dusty).	51012	Total and insoluble, ash high.
.. ..	8·58	4·16	No foreign tissues..	51013	" "
.. ..	7·68	3·64	"	51014	" "
.. ..	5·27	1·69	" . .	51015	Apparently genuine.
"White Swan" Brand.	3·42	0·86	"	51016	"
. ...	4·87	0·17	This sample is apparently cloves.	51017	Cloves—by mistake.
.. ..	2·82	0·81	Maize starch present and some foreign tissues.	51018	Adulterated.
....	8·63	4·58	No foreign tissues	51019	Total and insoluble ash high.
....	9·39	4·70	"	51020	" "

BULLETIN No. 251—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
						DISTRICT OF OTTAWA—	
1912.							
Aug. 31	Ground Cassia.	50271	H. M. Shaw, Perth, Ont.	¾ lb..	30	The Hamilton Coffee & Spice Co. Hamilton.	Manufacturers....
Sept. 4	" ..	50272	A. S. Moreland, Ottawa.	3 tins.	15	C. H. Cochrane & Co., Ottawa.	" ....
" 4	" ..	50273	H. A. McCagg, Ottawa	3 "	30	Unknown.	F. J. Castle Co., Ottawa.
" 5	" ..	50274	Jules Gratton, Hull, P. Q.	¾ lb..	30	C. H. Cochrane & Co., Ottawa.	Manufacturers....
" 7	" ..	50275	Jas. H. Bradley, Prescott.	¾ "	30	J. M. Lowes & Co., Toronto.	" ....
" 7	" ..	50276	C. Whitney & Son, Prescott.	¾ "	30	McLarens's, Ltd., Hamilton.	" ....
" 12	" ..	50277	Geo. H. Hall & Co., Ottawa.	¾ "	30	C. H. Cochrane & Co., Ottawa.	" ....
" 18	" ..	50278	Wm. Cusick, Merrickville.	¾ "	30	Unknown.	Unknown .. ..
" 18	" ..	50279	E. H. Tallman, Merrickville.	¾ "	30	"	" .....
" 18	" ..	50280	Miss M. McGill, Merrickville.	¾ "	30	"	" .....
						DISTRICT OF KINGSTON—	
Sept. 9	Ground Cassia.	50771	H. C. Hampton, Belleville.	¾ lb..	30	....	.....
" 10	" ..	50772	S. P. Harvey & Son, Cobourg.	¾ "	30	....	Todhunter & Mitchell.
						DISTRICT OF TORONTO—	
Sept. 13	Ground Cassia.	51461	Foster & Swift, Pope & Gerrard sts., Toronto	¾ lb .	30	.....	Unknown .....
" 13	" ..	51462	J. A. Jeffery, 1025 Gerrard st. east, Toronto	¾ "	30	. ...	.. ..
" 16	" ..	51463	Chas. Harlock, 1961 Queen st. east, Toronto.	¾ "	25	....	....
" 16	" ..	51464	Heck Bros., 585 King st. west, Toronto.	¾ . "	27	.....	J. M. Lowes Co., Ltd., Toronto.
" 16	" ..	51465	J. A. Macdonald, King & Spencer sts., Toronto.	¾ "	30	.....	Eby. Blain, Ltd., Toronto.
" 17	" ..	51466	A. M. Hough, 1666 Queen st. west, Toronto.	¾ "	25	....	Todhunter, Mitchell & Co., Toronto.
" 17	" ..	51467	H. Woods, 1614 Queen st. west, Toronto.	¾ "	30	.....	Litster Pure Food Co., Ltd., Toronto.
" 20	" ..	51468	W. C. Howard, Newmarket.	¾ "	30	.....	Dalton Bros., Toronto.

SESSIONAL PAPER No. 14

GROUND CASSIA.

Inspector's Report (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		
J. A. RICKEY, INSPECTOR.					
	p. c.	p. c.			
	3·93	0·56	No foreign tissues	50271	Apparently genuine.
	2·05	0·06	" large proportion of starch.	50272	"
	3·80	0·82	No foreign tissues	50273	"
	2·98	0·54	"	50274	"
	3·37	0·66	"	50275	"
	4·60	1·07	"	50276	"
	2·66	0·35	"	50277	"
	3·54	0·86	"	50278	"
	2·13	0·14	" large proportion of starch.	50279	"
	2·25	0·12	No foreign tissues	50280	"
JAS. HOGAN, INSPECTOR.					
	4·25	0·31	Consists of wheat, ginger, allspice, and maize starches. Clove stems allspice tissues, etc. has some smell and flavor of cloves (but flavor mostly just woody).	50771	Adulterated.
	3·76	1·16	No foreign tissues	50772	Apparently genuine.
H. J. DAGER, INSPECTOR.					
	3·55	0·80	No foreign tissues	5146.	Apparently genuine.
	3·57	1·09	"	51462	"
	2·67	0·52	Contains maize starch, and some foreign tissues.	51463	Adulterated.
	3·40	0·84	No foreign tissues	51464	Apparently genuine.
	3·17	0·15	"	51465.	"
	4·37	1·63	"	51466	"
	6·06	2·47	"	51467	Insoluble ash high.
	3·78	1·16	"	51468	Apparently genuine.

BULLETIN No. 251—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.
DISTRICT OF TORONTO—							
1912.							
Oct. 1	Ground Cassia.	51469	H. B. Clement, Burlington.	¾ lb.	23	.....	Lumsden Co., Hamilton.
" 1	" ..	51470	H. C. Davis, Dundas.	¾ " ..	30	.....	Geo. E. Bristol & Co., Hamilton.
DISTRICT OF WINDSOR—							
Oct. 2	Ground Cassia.	48148	R. Stirret Co., Petrolia.	¾ " ..	30	Unknown	Unknown .....
" 2	" ..	48153	J. E. Anderson, Wyoming.	¾ " ..	30	F. F. Dalley Co., Hamilton.	.....
" 3	" ..	48161	R. Wanless & Co., Sarnia.	¾ " ..	30	Todhunter & Mitchell, Hamilton.	.....
" 7	" ..	48177	Oscar R. Hauselman, Simcoe.	¾ " ..	30	White Swan S. & Co., Toronto.	.....
" 7	" ..	48181	L. F. Aiken, Simcoe..	¾ " .	45	McLarens Ltd., Hamilton.	.....
" 7	" .	48183	G. O. Werrett, Simcoe.	¾ " ..	45	" " ..	.....
" 8	" ..	48185	Ray G. Colburn, Tillsonburg.	¾ " ..	30	.....	Geo. Watt & Son, Brantford.
" 8	" ..	48192	R. M. Teall, Tillsonburg.	¾ " ..	30	.....	T. B. Escott Co., London.
DISTRICT OF MANITOBA—							
Sept. 20	Ground Cassia.	48700	The Gold Standard Mfg. Co., Winnipeg.	¾ lb..	Nil.	Vendors	.....
" 17	" ..	48721	J. E. Manning, Sargent Ave., Winnipeg.	¾ " ..	30	McLarens, Ltd., Hamilton.	Unknown .....
" 17	" .	48722	R. Seymour, Winnipeg.	¾ " ..	30	Unknown	" .....
" 17	" .	48723	MacKenzie & Reeve, Winnipeg.	¾ " ..	30	Todhunter, Mitchell Co., Toronto.	" .....
" 17	" ..	48724	" " ..	¾ " ..	30	McLarens, Ltd., Hamilton.	.....
" 18	" ..	48725	B. Arnason, Sargent Ave., Winnipeg.	¾ " ..	30	Campbell Bros. & Wilson, Winnipeg.	Mfrs .....
" 18	" ..	48726	C. Corneil, Langside St., Winnipeg.	¾ " ..	30	Unknown	Unknown .. ..
" 18	" ..	48727	W. S. Simpson, Sargent Ave., Winnipeg.	¾ " ..	30	Gold Standard Mfg. Co., Winnipeg.	Mfrs .....
" 20	" ..	48728	Campbell Bros. & Wilson, Winnipeg.	3 tins.	Nil.	Vendors....	.....
" 20	" ..	48729	The Dyson Co., Winnipeg.	¾ lb..	"	"	.....
" 20	" ..	48730	The White Star Mfg. Co., Winnipeg.	3 tins.	"	"	.....

SESSIONAL PAPER No. 14

GROUND CASSIA.

Inspector's Report (Is not an expression of Opinion).	Results of Analysis. Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.					
	p.c.	p. c.			
.. ..	4·27	0·51	No foreign tissues. ..	51469	Apparently genuine.
.. ..	3·26	0·24	" ..	51470	"

JNO. TALBOT, INSPECTOR.

....	3·39	0·56	No foreign tissues . .	48148	Apparently genuine.
Labelled Dalley's Pure Ground Cassia.	3·87	0·84	"	48153	"
Labelled Todhunter's Pure Select Cassia.	3·38	0·81	"	48161	"
....	4·03	1·05	"	48177	"
.. . .	4·04	0·69	"	48181	"
.. ..	4·02	0·63	"	48183	"
... .	3·56	0·66	"	48185	"
.. .. ..	3·40	0·12	"	48192	"

A. C. LARIVIERE, INSPECTOR.

....	3·66	0·94	No foreign tissues.... .	48709	Apparently genuine.
.. ..	4·80	1·22	"	48721	"
.. ..	3·60	1·19	" . ..	48722	"
.. ..	3·97	1·29	"	48723	"
. ...	3·95	0·62	"	48724	"
"Royal Shield" ..	3·03	0·60	"	48725	"
.. ..	2·72	0·60	Contains a large amount of wheat and maize starches, cocoanut shells, &c.	48726	Adulterated.
....	4·43	1·32	No foreign tissues.....	48727	Apparently genuine.
"Royal Shield"	3·54	0·90	"	48728	"
....	3·36	0·56	"	48729	"
....	4·16	1·06	"	48730	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
			DISTRICT OF NELSON—				
1912.							
Sept. 6	Ground Cassia.....	49711	Merritt Merc. Co., Merritt, B.C.	? tins.	30	Balfour & Co., Hamilton.	....
" 9	" ..	49726	Bourne Bros., Revelstoke, B.C.	3 " .	45	Pure Gold Mfg. Co., Toronto.	.. . .
" 23	" ..	49747	C. A. Warren, Golden B.C.	3 " .	30	Campbell Bros. & Wilson, Winnipeg.	..... .
" 23	" ..	49754	H. G. Parson, Ltd., Golden, B.C.	3 " .	30	Georgeson & Co., Calgary.	....
" 23	" ..	49766	Rolston & Mitchell, Golden, B.C.	3 " .	30	Campbell Bros. & Wilson, Winnipeg.	....
" 24	" . ..	49770	Field Trading Co., Field, B.C.	3 " .	40	" " .	....
Oct. 1	" ..	49784	Citizen's Co-op. Assoc. Nelson, B.C.	3 " .	30	Georgeson & Co., Calgary.	....
			DISTRICT OF VANCOUVER—				
Sept. 20	Ground Cassia....	38409	McDonald & Co., Granville St., Vancouver, B.C.	3 tins.	30	Shilling Ltd., San Francisco, Cal.	.. ..
" 20	" ..	38410	Walford & Roney..... Vancouver, B.C.	3 " .	30	Wm. Braid & Co., Vancouver.	....
			DISTRICT OF VICTORIA—				
Oct. 15	Ground Cassia....	49198	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B.C.	¾ lb..	80	.. ..	Dunn & Co., Hamilton.
" 19	" ..	49199	Pioneer Coffee & Spice Mills, 641 Pembroke St., Victoria, B.C.	¾ " ..	30	Vendors	....

SESSIONAL PAPER No. 14

GROUND CASSIA.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Ash Insoluble in H. Cl.	Microscopical Examination.		
THOS. PARKER, INSPECTOR.					
	p. c.	p. c.			
.....	4 28	1 37	No foreign tissues . .	49711	Apparently genuine.
.....	3 61	0 51	"	49726	" "
"Royal Shield" .	3 05	0 55	" "	49747	" "
"Tuxedo"	3 08	0 34	" "	49754	" "
"Royal Shield"	2 81	0 45	" "	49766	" "
" "	3 10	0 64	" " ..	49770	" "
.....	2 96	0 61	" "	49784	" "
J. F. POWER, INSPECTOR.					
Labelled "Cinnamon Saigon Cassia" Sold as Cassia.	3 84	0 10	No foreign tissues	38409	Apparently genuine.
Labelled Cinnamon. Sold as Cassia. Declared to be no difference between the two spices.	2·91	0 11	" "	38410	" "
D. O'SULLIVAN, INSPECTOR					
..... .	3 24	0 56	No foreign tissues	49198	Apparently genuine
....	3 29	0 87	" " . . .	49199	" "

APPENDIX P.

BULLETIN No. 252—GROUND CLOVES—A STUDY.

OTTAWA, March 14, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister, Inland Revenue.

SIR,—I have the honour to present you a report upon 141 samples of Ground Cloves. The samples were purchased by our Inspectors on the open market, throughout Canada, chiefly of retail grocers who are the usual purveyors of the article.

Cloves are found in the retail trade both in the unground and in the ground state. The form of this spice is so distinctive that, when sold in the unground condition it admits of no sophistication, except that it may have had its essential oil more or less removed by an extraction process. The demand for this oil (*Eugenol*) as a source of artificial vanillin is very considerable, and doubtless accounts for the large amount of exhausted cloves on the market.

We have made two extensive inspections of cloves in these laboratories. The first is reported in Bulletin 73 (October, 1900). This is chiefly a study of whole cloves, and was undertaken in consequence of complaints received from a reputable English house, concerning the importation of exhausted cloves into Canada. Nineteen samples of whole cloves and twenty-two of ground cloves were submitted to analysis; and the results were such as to demonstrate the need of defining limits, particularly as regards the content of volatile oil, for the legally genuine article.

The following conclusion was reached as a result of the work reported in Bulletin 73:—

> 'No sample of Cloves claiming to be of good quality, should yield less than 14 per cent of volatile oil when assayed by the methods which are herein described. If total volatile matter is determined by treatment with petroleum ether, before drying at 98° C., the minimum volatile matter found should be at least 16 per cent by weight.'

The Committee upon Food Standards of the United States (Circ. 19, Department of Agriculture, Washington, June, 1906) recommends the following standards for Cloves:—

> 'The dried flower buds of *Caryophyllus Aromaticus,* which contain not more than 5 per cent of clove stems; not less than 10 per cent Volatile Ether Extract; not less than 12 per cent quercitannic acid; not more than 8 per cent total ash; not more than 0·5 per cent ash insoluble in hydrochloric acid; not more than 10 per cent crude fibre.'

The volatile Ether Extract mentioned in this definition is not strictly identical with volatile oil, for the reason that it is determined on the cloves after drying by a method which involves a considerable, and an unknown loss of volatile oil. The limit of 10 per cent for volatile Ether Extract named in the United States definition is certainly too low to apply to volatile oil.

In July and August of 1907, a collection of 145 samples of ground Cloves was made and is reported in Bulletin 173. It was found possible to classify only 52 per cent of this collection as undoubtedly genuine. On the other hand, the absence of legally established limits made it impossible to declare adulteration except in cases where foreign matters were present.

Although the work reported in Bulletins 73 and 173 furnishes material for a tentative scheme of assaying cloves, it was felt that some points needed further elucidation, and the present report is the result. The following conclusions seem to be justified as a study of the whole:—

1. The total ash of cloves, free from stems should not exceed 6 per cent.
2. Presence of stems considerably increases the Ash.
3. Ash insoluble in hydrochloric acid is very low in clove buds, not exceeding two or three-tenths of one per cent.
4. Addition of stems notably increases the acid-insoluble Ash.
5. The volatile oil of cloves is the most important character, and is at the same time the component which gives the spice its value as a condiment. Determination of volatile oil is complicated by the fact that any moisture (normally 6-7 p.c.) comes off with the oil; and attempts to dry the clove, necessarily result in loss of volatile oil.
6. The best way of drying cloves would appear to be the use of sulphuric acid in vacuo. The point at which the oil comes off in notable amount being indicated by discolouration of the acid.
7. The volatile oil of cloves should not be less than 14 per cent by weight of the cloves, and may reach 19 per cent.
8. The total volatile matter of cloves, consisting of water and volatile oil should not be less than 16 per cent, and may reach 25 per cent of the weight of the cloves.
9. The fixed oil of cloves, determined by extraction on the properly prepared sample should be about 10 per cent of the weight of the cloves, when estimated by loss. This component seems to be more variable than the others, and to be less affected by the commercial treatment of the clove for Eugenol.

On account of their high content in oil, manufacturers find it difficult (some say impossible) to grind cloves without addition of something to take up the excess of oil. For this purpose, Pimento (all-spice) seems the most in use; but clove-stems, and possibly certain starches, may be employed. The use of pimento, or other suitable matter, for such purpose does not constitute adulteration, provided that the article be sold as a compound or mixture. (R.S. 1906, Chap. 133, Sec. 24*a*).

Over one hundred samples of the present collection contain pimento, in amounts varying from a small percentage to apparently 30 or 40 per cent of the sample. This consideration with the fact that the cost of pimento is only about one-half the

cost of the cloves, makes it evident that not only must the fact of admixture be declared, but a statement of the amount of each ingredient as well, in order that the public be properly informed as to the article supplied.

If we accept as normal such samples as contain not less than 14 per cent of volatile oil, 78 samples of this collection will be classed as normal. Among these, however, there are great differences in quality as may be seen below:—

14 to 15 p.c. volatile oil in	27	samples.
16 to 17 " "	19	"
18 to 19 " "	22	"
20 or more p.c. "	10	"

It would therefore appear reasonable to require a minimum of at least 14 per cent volatile oil for ground cloves. Many samples herein marked 'normal' exhibit large admixture of pimento starch; and since pimento contains from 3 to 6 per cent of Eugenol, it might be possible for a mixture of cloves having 20 per cent oil with pimento having 5 per cent oil, to contain 40 per cent of pimento and still yield 14 per cent of Essential Oil on analysis.

The following scheme of standards for Ground Cloves is suggested as consistent with the knowledge we possess of the commercial article:—

1. *Cloves.*—The flower-buds of *Caryophyllus Aromaticus, L.,* containing not more than (5) per cent of Clove stems; dried but not otherwise treated.

2. *Ground Cloves.*—Cloves, reduced to powder by grinding, without addition of other matters; and possessing the following characters:—

	Per cent.
(*a*) Total ash, not exceeding	8
(*b*) Sand, not exceeding	0·5
(*c*) Moisture, not exceeding	10
(*d*) Volatile Oil, not less than	14
(*e*) Tannic Acid, not less than	12
(*f*) Crude fibre, not more than	10

3. *Ground Cloves, compound or mixture.*—Cloves reduced to powder by grinding, in admixture with not more than 50 per cent of a harmless substance or substances of a stated nature.

The work now recorded will form the basis of recommendations for standardization of this article with as little delay as possible.

I beg to recommend publication of this as Bulletin No. 252.

I have the honour to be, Sir,

Your Obedient Servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Inspector's Report. (Is not an expression of opinion).
			DISTRICT OF NOVA SCOTIA—			
1912.						
Sept. 12	Ground Cloves	46841	Wentzell's, Ltd., Halifax, N.S.	¾ lb.	25	
" 13	"	46842	Jno. P. Mott & Co., Halifax, N.S.	¾ "	nil.	
" 13	"	46843	Nat. Drug & Chem. Co., Halifax, N.S.	¾ "	25	
" 16	"	46844	Morrison & Williams, Halifax, N.S.	¾ "	22	
" 17	"	46845	Bauld Bros., Ltd., Halifax, N.S.	¾ "	18	
" 17	"	46846	A. L. Doyle & Co., Halifax, N.S.	¾ "	21	
" 17	"	46847	Jas. Scott & Co., Halifax, N.S.	¾ "	30	
" 18	"	46848	R. B. Seeton & Co., Halifax, N.S.	¾ "	24	
" 19	"	46849	W. H. Schwartz, & Sons, Halifax, N.S.	¾ "	20	
Oct. 7	"	46850	Payzant & King, Halifax, N S.	¾ "	30	
			DISTRICT OF PRINCE EDWARD ISLAND—			
Sept. 6	Ground Cloves	46267	R. T. Maddigan & Co., Charlottetown, P.E.I.	¾ lb.	30	
" 6	"	46268	J. G. Jamieson, Charlottetown, P.E.I.	¾ "	48	
" 7	"	46269	A. Gates & Co., Charlottetown, P.E.I.	¾ "	30	
" 9	"	46270	Coffin & Co., Charlottetown, P.E.I.	¾ "	30	
" 10	"	46271	The 2 Mac's., Charlottetown, P.E.I.	¾ "	30	
" 10	"	46272	The McKinnon Drug Co., Charlottetown, P.E.I.	¾ "	40	
" 12	"	46273	W. W. Walker, Charlottetown, P.E.I.	¾ "	30	
" 12	"	46274	J. G. Passmore, Charlottetown, P.E.I.	¾ "	48	
" 14	"	46275	Reddin Bros., Charlottetown, P.E.I.	¾ "	30	
" 17	"	46276	George Forbes, Vernon River Bridge.	¾ "	24	

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GROUND CLOVES.

Results of Analysis.

Ash.		Volatile matter at 100°C.							Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.	Fixed oil.	Total oil.	Tannin.	Crude Fibre.			
R. J. WAUGH, INSPECTOR.											
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
6·35	0·30	5 90	17 75	23·65	3 80	21·55	. .	....	A few stems...	46841	Normal.
5·35	0·20	5·45	16·75	22 20	3 75	20·50	.	.....	" ...	46842	"
5·80	0·15	5 85	16·95	22·80	3·85	20 80	.	.....	A few stems and large amount of starch (Pimento).	46843	"
5·35	0·15	3·90	13 50	17 40	3·95	17 45	....	....	A few stems and starch(Pimento)	46844	Low in essential oil.
5·65	0 20	5·50	14·35	19 85	4 40	18 75	...		Stems and a little starch(Pimento)	46845	Normal.
5·90	0·20	4·90	13·95	18·75	4 20	18 15	....		Numerous stems.	46846	"
5·90	0 20	4 45	15·90	20 35	4·50	20 40	.		A few stems .	46847	"
6 00	0·10	4 05	16·20	20 25	1 35	20·55		..	A few stems and a little starch (Pimento).	46848	"
5·60	0·20	4·25	17·95	22·20	4 65	22·60		.	Stems and starch (Pimento).	46849	"
6·00	0 15	4 05	17·75	21·80	4 45	22·20	.	.	Numerous stems and large amt. of starch (Pimento)	46850	"
WM. A. WEEKS, INSPECTOR.											
5·90	0·20	6 55	14 80	21 35	2·85	17 65	...	....	A few stems ..	46267	Normal.
5 60	0·20	6·05	18·10	24·15	3 25	21·35	....	....	" ...	46268	"
5·50	0·10	6 70	17·40	24·10	3·30	20 70	....	....	Starch (Pimento)	46269	"
6·00	0·25	6·75	15·95	22 70	3 20	19·15	.....	...	Numerous stems and starch(Pimento).	46270	"
5·80	0 20	6·45	15·80	22 25	3·80	19·60	. ..	.	A few stems ...	46271	"
5·55	0·15	6 85	13·35	20·20	3·55	16·90	. .	.....	A few stems and a little starch (Pimento).	46272	Low in essential oil.
5·25	0·15	7·20	12·20	19 40	3·60	15·80	.....	.....	Stems and starch (Pimento).	46273	"
6·30	0·50	7·20	14·40	21·60	2·85	17·25	.. ..	.....	A few stems, traces of starch (Pimento).	46274	Normal.
4 10	0·10	4·45	8 60	13·05	3·15	11·75	10·27	11·5	Large amt. of starch (Pimento).	46275	Very low in essential oil.
5 90	0·25	6·50	15·50	22 00	3·15	18·65	.....	....	A few stems...	46276	Normal.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Inspector's Report. (Is not an expression of opinion).
			DISTRICT OF BRUNSWICK—			
1912.						
Sept. 4	Ground Cloves.....	50440	Dearborn & Co., St. John, N.B.	¾ lb .	18	.....
" 4	"	50441	Puddington, Wetmore & Morrison, Ltd., St. John, N.B.	¾ " ..	21	.....
" 4	"	50442	G. E. Barbour Co., Ltd., St. John, N.B.	¾ " ..	27	.....
" 5	"	50443	H. W. Cole, Ltd., St. John, N.B.	¾ " ..	21	.....
" 5	"	50444	McCready & Son, Ltd., St. John, N.B.	¾ " ..	18	.....
Oct. 8	"	50445	James Burgess &Son, Grand Falls, N.B.	3 pkgs	30	.....
" 8	" ...	50446	Jas. F. McCluskey, Grand Falls, N.B.	3 "	30	"Purity" Brand.....
" 15	"	50447	Mills, Eveliegh Co., Ltd., Sussex, N.B.	¾ lb..	27	"Signet" Br-and.....
" 16	"	50448	Mrs. P. White, Moncton, N.B.	3 pkgs	25	"Pyramid" Brand.....
" 19	"	50449	A. Normand Desbrisay, Bathurst, N.B.	¾ lb..	30	.....
			DISTRICT OF QUEBEC—			
Sept. 3	Ground Cloves.....	37212	Endore Delisle, 2 Ave Tachereau, Quebec.	¾ lb..	30	.....
" 4	"	37213	O. Lacroix, 19 Rue St. Joseph, Quebec.	¾ " ..	30	.....
" 5	"	37214	W. Cantin, 133 Rue du Pont, Quebec.	¾ " ..	30	.....
" 6	"	37215	G. Gingras, 268 Rue du Roi, Quebec.	¾ " ..	30	.....
" 9	" ...	37216	Cantin & frère, 271 Rue St. Joseph.	¾ " ..	30	.....
" 10	"	37217	C. S. Riverin, 50 Rue de la Couronne, Quebec.	¾ . ..	30	.....

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GROUND CLOVES.

Results of Analysis.

Ash.		Volatile matter at 100°C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.	No. of Sample	Remarks and Opinion or the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
J. C. FERGUSON, INSPECTOR.											
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
6·20	0·10	2·95	11·65	14·50	5·15	16·80	....	....	A few stems and a large amt. of starch (Pimento)	50440	Low in essential oil
5·70	0·20	6·00	14·65	20·65	4·25	18·90		....	Numerous stems and a little starch (Pimento)	50441	Normal.
5·90	0·25	4·65	17·20	21·85	4·25	21·45	....		A few stems	50442	"
5·80	0·20	5·70	14·50	20·70	4·90	19·40			A few stems and a little starch (Pimento).	50443	"
6·05	0·20	2·85	12·25	15·10	3·50	15·75	....		A few stems and a little starch (Pimento).	50444	Low in essential oil.
6·50	0·20	3·20	11·00	14·20	4·45	15·45	....		Numerous stems and a large amt. of starch (Pimento).	50445	"
5·85	0·30	5·15	16·15	21·30	4·40	20·55		....	A few stems and a large amt. of starch (Pimento)	50446	Normal.
5·70	0·20	5·05	14·90	19·95	4·70	19·60	....	....	A few stems	50447	"
6·25	0·20	3·80	9·10	12·90	4·60	13·70	15·11	11·5	Stems and starch (Pimento).	50448	Very low in essential oil.
6·05	0·15	4·00	10·30	14·30	4·85	15·25	18·13	11·5	Traces of starch (Pimento).	50449	"
F. X. W. E. BELAND, INSPECTOR.											
5·40	0·45	4·15	9·60	13·75	6·35	15·95	9·67	11·5	A few stems and starch (Pimento)	37212	Very low in essential oil.
5·80	0·20	2·70	13·05	15·75	5·55	18·60	15·11	9·8	Numerous stems and starch (Pimento).	37213	Low in essential oil.
3·60	0·40	4·35	6·90	11·25	3·45	10·35	4·23	13·6	Stems and a large amt. of starch (Pimento).	37214	Very low in essential oil.
5·75	0·50	4·40	7·85	12·25	5·10	12·95	8·46	9·0	Starch (Pimento)	37215	"
3·70	0·20	3·30	7·30	10·60	5·60	12·90	5·44	17·7	Stems and a large amt. of starch (Pimento).	37216	"
3·90	0·15	4·35	6·95	11·30	4·50	11·45	6·04	21·2	Stems and starch (Pimento).	37217	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Inspector's Report. (Is not an expression of opinion).
			DISTRICT OF QUEBEC—			
1912.						
Sept. 11	Ground Cloves	37218	Myrand & Pouliot, 70 Rue de la Couronne, Quebec.	¼ lb..	30	.....
" 12	"	37219	Arthur Drolet, 714 Rue St. Valier, Quebec.	¼ " ..	30	.....
" 13	"	37220	A. Rinfret, 414 Rue St. Valier, Quebec	¼ " ..	30	.....
" 16	"	37251	Hamel & Bedard, 728 Rue St. Valer, Quebec.	¼ " ..	30	.....
			DISTRICT OF ST. HYACINTHE—			
Sept. 16	Ground Cloves.....	1454	Paul Rajotte, St. G. de Grantham.	¼ lb..	30	.....
" 17	"	1455	Laperrière & fils, Pierreville...	¼ " ..	19	.....
" 17	"	1456	J. E. Turbide, Yamaska East..	¼ " ..	15	.....
" 18	"	1457	A. Casabon, Sorel.....	¼ " ..	27	.....
" 20	"	1458	J. B. Carrean, St. Aime	¼ " ..	15	.....
" 25	"	1459	L. Gosselin, Henryville. ..	¼ " ..	28	.....
" 26	"	1460	W. A. Reynolds, Frelighsburg.	¼ " ..	22	.....
" 27	"	1461	M. Lemire, Iberville.	¼ " ..	20	.....
Oct. 1	"	1462	W. Murray & Co., Sherbrooke.	¼ " ..	30	.....
" 8	"	1463	L. Minard, Eastman.....	¼ " ..	25	.....
			DISTRICT OF MONTREAL—			
Oct. 1	Ground Cloves.....	51001	J. H. Labraude, 141 St. Viateur st., Montreal.	1 lb..	30	.....
" 1	"	51002	H. Ward, 108 St. Viateur st., Montreal.	1 " ..	30	.....

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GROUND CLOVES.

Results of Analysis.

Ash.		Volatile matter at 100°C.							Microscopical Examination.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.	Fixed oil.	Total oil.	Tannin.	Crude Fibre.			
Concluded.											
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
5·80	0·50	4·50	15 35	19·85	4·35	19 70	18 13	10·0	Stems and traces of starch (Pimento).	37218	Normal.
3·80	0 20	2 80	9 25	12·05	6·90	16·15	4 83	15·5	Stems and starch (Pimento).	37219	Very low in essential oil.
5·45	0·10	3·05	18 10	21·15	4 45	22·55	18 73	9·2	A few stems ..	37220	Normal.
5·15	0 25	4 75	19 25	21·00	4·30	23·55	.....	.....	... ...	37251	"
J. C. ROULEAU, INSPECTOR.											
4·30	0·20	3·95	8·00	11·95	4 85	12·85	12 09	9 6	Stems and a large amount of starch (Pimento).	1454	Very low in essential oil.
4 55	0·20	3 60	11 60	15 20	5 55	17 15			A few stems and starch (Pimento).	1455	Low in essential oil.
5·80	0·50	4·65	9·30	13·95	5·85	15 15	11 48	9·7	A few stems and a large amount of starch (Pimento).	1456	Very low in essential oil.
5 90	0·40	4 50	9·30	13 80	4 50	13 80	14·50	19 5	Stems and starch (Pimento).	1457	"
7 95	0 50	3·05	7 65	10·70	5·00	12 65	10 88	18 2	A few stems and a large amount of starch (Pimento).	1458	"
4 05	0 10	4 05	7 75	11 80	6 85	14 60	7 25	18 5	" ..	1459	"
5 80	0 30	4 95	14·70	19·65	4 35	19 05	..	.	"	1460	Normal.
5 50	0 35	5·15	18·95	24 10	4·70	23 65		.	Numerous stems	1461	"
6 10	0·45	3 00	12 55	15 55	5 10	17·65		. .	A few stems and a large amount of starch (Pimento).	1462	Low in essential oil.
6·60	0 35	4·25	13·55	17·80	4 75	18 30	.	. . . .	A few stems and a little starch (Pimento).	1463	"
J. J. COSTIGAN, INSPECTOR.											
3 65	0·35	4·60	8·75	13·35	5·35	14·10	9·06	10·6	Stems and a little starch (Pimento).	51001	Very low in essen tialoil.
6·20	0·50	6·35	15·35	21 70	3·00	18 35	.....	.....	Numerous stems.	51002	Normal.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF MONTREAL—
1912.						
Oct. 1	Ground Cloves	51003	E. Tessier, 70 Laurier ave. W., Montreal.	1 lb.	30	
" 4	"	51004	T. J. Collins, St. Agathe de Monts.	¾ lb.	30	
" 7	"	51005	W. Biltcliffe, 350 Victoria ave., Westmount.	¾ "	30	
" 8	"	51006	R. Bernard, 91 Lagauchetière st. E., Montreal.	¾ "	30	
" 8	"	51007	S. Dionne, 140 Dorchester E., Montreal.	¾ "	30	
" 10	"	51008	E. Dufour, Joliette, P.Q.	¾ "	30	
" 16	"	51009	Z. Lapointe, 54 Villeneuve st., Montreal.	¾ "	30	
" 11	"	51010	Lewis Reese, 393 Church ave., Verdun, P.Q.	¾ "	30	
						DISTRICT OF OTTAWA—
Aug. 30	Ground Cloves	50252	McCuaig, Cheney & Co., Vankleek Hill.	¾ lb.	30	Labelled pure ground cloves.
" 31	"	50253	A. Meighan &Bro., Perth, Ont.	3 pkts	30	Labelled pure ground cloves, A. Meighan & Bro., Perth, Ont.
Sept. 4	"	50254	A. S. Moreland, Ottawa	3 "	30	
" 4	"	50255	Geo. Agar, Ottawa	3 "	30	
" 4	"	50256	N. A. McCagg, Ottawa	3 "	30	
" 4	"	50257	Alex. Phillips, Ottawa	¾ lb.	30	
" 5	"	50258	J. B. Bedard, Hull, P.Q.	¾ "	30	
" 6	"	50259	Jas. McDougall, Brockville	¾ "	30	
" 7	"	50260	John Whitley, Prescott.	¾ "	30	
" 18	"	50261	E. H. Tallman, Merrickville	¾ "	30	

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GROUND CLOVES.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100° C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
Concluded.											
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
4·60	0·15	6·75	11·35	18·10	4·80	16 15	. ..	....	A few stems and starch (Pimento).	51003	Low in essential oil.
4·50	0·10	7·15	10·65	17·80	4·05	14 70	..	.....	Stems and starch (Pimento).	51004	"
5·55	0·45	3·80	11·55	15 35	5 20	16 75	....	.....	A few stems....	51005	"
4·90	0·20	3·75	8·50	12·25	3 70	12·20	10 88	12·0	A large amount of starch (Pimento).	51006	Very low in essential oil.
4·85	0·10	3·85	11 40	15 25	5 10	16 50	.....	.....	Stems and starch (Pimento).	51007	Low in essential oil.
4·55	0·10	3·75	12 80	16·55	6 75	19 55	. .	.	" .	51008	"
5·05	0 15	3·70	9 40	13·10	4 35	13·75	13 90	10·8	Stems and a large amount of starch (Pimento).	51009	Very low in essential oil.
5·00	0 20	4·10	12·25	16 35	6 20	18 45	.	...	" ..	51010	Low in essential oil.
J. A. RICKEY, INSPECTOR.											
5·35	0·45	4·90	10·00	14·90	4 50	14 50	.....	..	Stems and a large amt. of starch (Pimento).	50252	Low in essential oil.
5·50	0 20	6·35	16 80	23·15	3 10	19·90	.....	....	A few stems....	50253	Normal.
5 45	0 20	6·35	16·70	23·05	3·20	19 90	.....	..	A few stems and starch (Pimento).	50254	"
5·55	0 20	6·60	15·35	21·95	3·30	18 65	.....	.....	Stems and starch (Pimento).	50255	"
5·75	0·40	6·85	16 75	23·60	3 25	20·00	.....	.....	" .	50256	"
5·45	0 60	6·50	11·50	18 00	2 90	14 40	....	.....	" ..	50257	Low in essential oil; high in insoluble ash.
7·25	0 10	3·65	8·65	12·30	4·20	12·85	....	...	" ..	50258	Very low in essential oil.
6·70	0·25	2 90	12·50	15·40	3·40	15 90	16·92	10·8	Stems & a small amt. of starch (Pimento).	50259	Low in essential oil.
6·15	0·15	6·65	11·65	18·30	3 15	14·80	.....	.....	A few stems and a small amt. of starch (Pimento).	50260	"
6·55	0·40	6·90	11·30	18·20	3·20	14·50	.....	.....	Numerous stems	50261	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Inspector's Report. (Is not an expression of opinion).
			DISTRICT OF KINGSTON—			
1912.						
Sept. 3	Ground Cloves.....	50751	J. Campbell, Kingston.....	¾ lb..	30	.....
" 9	"	50752	H. C. Hampton, Belleville...	¾ " ..	30	.....
" 9	"	50753	S. R. Artis, Belleville.....	¾ " ..	30	.....
" 9	"	50754	Wallbridge & Clark, Belleville.	¾ " ..	30	.....
" 9	"	50755	C. Hilton, Belleville.....	¾ " ..	30	.....
" 10	"	50756	The Thompson, Macdonald Co., Cobourg.	¾ " ..	30	.....
" 10	"	50757	T. P. Harvey & Son, Cobourg..	¾ " ..	30	.....
10	"	50758	W. D. Sephens, Port Hope....	¾ " ..	35	.....
" 10	"	50759	F. Rosevear, Port Hope.....	¾ " .	30	.....
" 11	"	50760	J. Hill, Peterboro.....	¾ " ..	30	.....
			DISTRICT OF TORONTO—			
Sept. 13	Ground Cloves.....	51441	T. H. Coffin, Grange ave. and Denison st., Toronto.	¾ lb..	30	Vendor said it was included in stock when purchased.
" 16	"	51442	Wm. Black, 1960 Queen st. east, Toronto.	¾ " ..	27	.....
" 16	"	51443	Fred Hammer, 581 King st. west, Toronto.	¾ " ..	30	.....
" 17	"	51444	C. Barrett, 964 Bloor st. west. Toronto.	¾ " ..	25	.....
" 17	"	51445	T. W. Cole, 156 Dundas st, Toronto.	¾ " ..	30	.....
" 20	"	51446	Towns & Nonis, Aurora.....	¾ " ..	30	.....
Oct. 2	" ...	51447	O. W. Robbins, 164 Locke st. south, Hamilton.	¾ " ..	30	.....
" 2	"	51448	John Forth, Queen & Charlton ave., Hamilton.	¾ " ..	30	.....

SESSIONAL PAPER No. 14

GROUND CLOVES.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100° C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
JAS. HOGAN, INSPECTOR.											
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
5·95	0·30	3·85	18·40	22·25	4·00	22·40	.....	.....	.....	50751	Normal.
4·45	0·20	6·00	4·50	10·50	0·10	4·60	. .	. . . .	Not cloves, Allspice.	50752	Is not cloves.
6·40	0·50	4·55	16·15	20·70	3·80	19·95	. .	.....	A few stems....	50753	Normal.
6·95	0·45	4·50	14·00	18·50	3·40	17·40	. . .	. . . .	" . .	50754	"
7·40	0·35	3·10	11·40	17·50	4·65	19·05	15·11	9·6	"	50755	"
6·05	0·20	3·80	19·80	23·60	3·70	23·50	. .	. .	"	50756	"
5·30	0·15	3·50	21·10	24·60	4·40	25·50	. . .	. .	A few stems and a little starch (Pimento).	50757	"
5·60	0·20	3·40	21·75	25·15	4·45	26·20	. .	. .	" . .	50758	"
5·80	0·25	4·40	15·30	19·70	4·60	19·30	. .	.....	A few stems and starch (Pimento).	50759	"
6·40	0·40	4·00	18·65	22·65	4·30	22·95	.....	...	"	50760	"
H. J. DAGER, INSPECTOR.											
4·95	0·15	4·70	9·65	14·35	3·10	12·75	10·27	15·0	Numerous stems and a large amt. of starch (Pimento).	51441	Very low in essential oil.
6·95	0·60	6·45	13·55	20·00	2·85	16·40	. . .	.....	Stems.....	51442	Low in essential oil; high insoluble ash
7·25	0·50	6·30	11·90	18·20	4·15	16·05	. .	.....	A small amt. of starch Pimento).	51443	Low in essential oil.
6·40	0·30	6·65	12·80	19·45	2·70	15·50	. . .	.....	Stems and a large amt. of starch (Pimento).	51444	"
6·65	0·45	4·25	8·65	12·90	2·80	11·45	12·69	15·8	"	51445	Very low in essential oil.
6·75	0·20	6·75	12·15	18·90	2·70	14·85	. . .	.....	Stems.....	51446	Low in essential oil.
5·20	0·45	3·50	11·45	14·95	5·25	16·70	....	.....	"	51447	"
5·85	0·25	5·85	16·60	22·45	4·80	21·40	. . .	....	Stems and traces of starch (Pimento).	51448	Normal.

BULLETIN No. 252—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF TORONTO
1912						
Oct. 3	Ground Cloves.....	51449	J. J. Lynch, 185 Park st., Hamilton.	¾ lb.	23	.....
" 3	"	51450	R. D. Saul, 124 James st. north, Hamilton.	¾ " ..	23	.....
						DISTRICT OF WINDSOR—
Oct. 2	Ground Cloves.....	48152	A. Duncan & Co., Wyoming..	¾ lb..	30	....
" 3	"	48162	R. Wanless & Co., Sarnia.	¾ " ..	30	Todhunter's pure select cloves.
4	"	48171	R. H. Davis, Strathroy.....	¾ " ..	60	... .
7	"	48174	G. A. Curtis, Simcoe.....	¾ " ..	60	....
" 7	"	48176	R. Edmunds, Simcoe.....	¾ " ..	45	....
" 7	"	48178	Oscar R. Hauselman, Simcoe..	¾ " ..	38	....
" 7	"	48179	G. J. Imeson, Simcoe.....	¾ " ..	30	....
" 7	"	48182	L. F. Aiken, Simcoe.....	¾ " ..	45	....
" 7	"	48184	G. O. Werrett, Simcoe.....	¾ " ..	45	....
" 8	"	48186	Ray P. Colburn, Tillsonburg..	¾ " ..	30	....
" 8	"	48188	Imrie & Stewardson, Tillsonburg.	½ " ..	30	.....
						DISTRICT OF MANITOBA—
Sept. 17	Ground Cloves.....	48701	R. Seymour, Sargent ave., Winnipeg.	¾ lb..	30	....
" 17	"	48702	MacKenzie & Reeve, Winnipeg.	¾ " ..	30	.....

GROUND CLOVES.

Results of Analysis.											
Ash.		Volatile matter at 100° C.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.	Fixed oil.	Total oil	Tannin.	Crude Fibre.	Microscopical Examination.		
Concluded.											
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
6·25	0·20	5·10	19·10	24·20	4·50	23·60	...	...	A few stems ..	51449	Normal.
5·80	0·50	5·00	18·80	23·80	5·30	24·10			A few stems and traces of starch (Pimento).	51450	"
JNO. TALBOT, INSPECTOR.											
5·35	0·10	4·75	16·85	21·60	4·25	21·10			Stems and a large amt. of starch (Pimento).	48152	Normal.
4·70	0·20	5·40	19·80	25·20	4·15	23·95			Trace of Mother of Cloves starch.	48162	"
6·10	0·15	4·50	14·50	18·80	3·60	17·90			A few stems and a little starch (Pimento).	48171	"
5·90	0·20	4·10	15·90	20·00	4·30	20·20			Numerous stems and a large amt. of starch (Pimento).	48174	"
6·95	0·40	4·65	11·55	16·20	4·25	15·80			Numerous stems	48176	Low in essential oil.
4·65	0·15	4·75	20·15	24·90	4·10	24·25			A few stems.	48178	Normal.
4·65	0·10	3·85	17·75	21·60	4·40	22·15	...	..	A few stems and a large amt. of starch (Pimento).	48179	"
5·35	0·20	4·20	16·60	20·80	4·55	21·15	.	.	A few stems and a little starch (Pimento).	48182	.
5·60	0·30	3·70	18·50	22·20	4·20	22·70	.	.	" ...	48184	
4·80	0·30	3·20	10·65	13·85	5·35	16·00	.	.	Stems and a large amt. of starch (Pimento).	48186	Low in essential oil.
4·90	0·10	4·10	15·65	19·75	5·80	21·45	...	.	A few stems and starch (Pimento).	48188	Normal.
A. C. LARIVIÈRE, INSPECTTOR.											
5·55	0·15	6·35	18·45	24·80	2·70	21·15	.	.....	A few stems ...	48701	Normal.
6·65	0·40	3·65	13·45	17·10	3·40	16·85	21·15	9·7	"	48702	Low in essential oil.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Inspector's Report. (Is not an expression of opinion).
						DISTRICT OF MANITOBA—
1912.						
Sept. 17	Ground Cloves	48703	Conley & Yost, Winnipeg	¾ lb.	30	
" 19	"	48704	C. A. Whitman, Emerson	¾ "	20	
" 20	"	48705	Campbell Bros. & Wilson, Winnipeg.	3 tins.	nil	
" 20	"	48706	The Dyson Co., Winnipeg	¾ "	"	
" 20	"	48707	White Star Mfg. Co., Winnipeg.	3 tins.	"	
" 20	"	48708	Gold Standard Mfg. Co., Winnipeg.	¾ lb.	"	
" 23	"	48709	P. Nelson, Winnipeg	3 tins.	30	
" 23	"	48710	W. H. Morgan, Winnipeg	¾ lb.	30	
						DISTRICT OF NELSON—
Sept. 3	Ground Cloves	49688	Union Cash Grocery, Nelson, B.C.	3 tins.	40	
" 3	"	49691	Bell Trading Co., Nelson, B.C.	¾ lb.	30	
" 6	"	49703	G. B. Armstrong, Merritt, B.C.	3 tins.	45	
" 6	"	49708	Merrit Merc. Co., Merritt, B.C.	¾ lb.	30	
" 6	"	49714	Merritt Ind & Co-op. Society, Merritt, B.C.	3 tins.	30	
" 9	"	49722	L. C. Masson, Revelstoke, B.C.	3 "	45	
" 9	"	49727	Bourne Bros., Revelstoke, B.C.	¾ lb.	40	
" 23	"	49748	C. A. Warren, Golden, B.C.	3 tins.	40	
" 23	"	49756	H. G. Parson, Ltd., Golden, B.C.	3 "	30	
" 23	"	49761	C. R. Lumber Co., Golden, B.C.	3 "	45	

GROUND CLOVES.

Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
Ash.		Volatile matter at 100° C.			Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
Total.	Acid Insoluble.	Moisture.	Oil.	Total.							
Concluded.											
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
7·70	0·80	3·85	10·70	14·55	6·10	16·80	.....	..	A few stems and a small amount of starch (Pimento).	48703	Low in essential oil, high insoluble ash
7·15	0·30	6·40	19·10	25·50	2·85	21·95	.....	.....	" "	48704	Normal.
4·90	0·25	6·15	21·35	27·50	3·75	25·10	16·92	8·9	Stems...	48705	"
5·15	0·20	5·70	12·75	18·45	4·35	17·10	....	.....	A few stems ..	48706	Low in essential oil.
5·60	0·10	6·45	14·40	20·95	3·10	17·50	...	...	" ..	48707	Normal.
5·60	0·10	5·10	20·15	25·25	3·35	23·50	.	.. .	" ..	48708	"
7·45	0·60	3·50	13·55	17·05	6·15	19·70	.....	.....	A few stems and starch (Pimento)	48709	Low in essential oil, high insoluble ash
5·75	0·10	6·00	14·05	20·05	3·45	17·50	.....	.....	Stems and traces of starch (Pimento).	48710	Normal.
THOS. PARKER, INSPECTOR.											
6·50	0·20	4·20	12·30	16·50	4·40	16·70	.	. ..	Stems.....	49688	Low in essential oil.
4·80	0·10	4·30	18·60	22·90	4·85	23·45		.....	A few stems and a little starch (Pimento).	49691	Normal.
5·75	0·35	4·30	15·90	20·20	5·60	21·50	...	.. ..	" "	49703	"
*	*	*	*	*	*	*	*	*		49708	Sample lost.
4·75	0·20	4·55	21·50	26·05	5·45	26·95	..	.....	Traces of starch (Pimento).	49714	Normal.
5·30	0·30	5·45	19·25	25·80	5·10	24·35	....	....	A few stems and a little starch (Pimento).	49722	"
3·25	0·10	4·65	10·50	15·10	4·25	14·75	6·65	....	Stems and a very large amount of starch (Pimento).	49727	Low in essential oil.
5·30	0·30	4·85	19·10	23·95	6·20	25·30	.... ..	.....	A few stems ..	49748	Normal.
5·25	0·25	5·30	20·20	25·50	3·85	24·05	16·92	8·3	A few stems and a little starch (Pimento).	49756	"
6·70	0·40	4·45	12·65	17·10	4·10	16·75	....	....	Stems and a little starch (Pimento)	49751	Low in essential oil,

Sample destroyed in transit.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Inspector's Report. (Is not an expression of opinion).
			DISTRICT OF VANCOUVER—			
1912.						
Sept. 20	Ground Cloves.. ..	38419	London Grocery Co., Granville St. Vancouver, B.C.	3 tins.	30	This Tin contains nothing but spice of the finest quality.
" 20	"	38420	Jardine & Dickinson, Kerrisdale, B.C.	3 " .	25	Guaranteed absolutely pure.
" 20	"	38421	A. C. Bartig, 8th Ave. & Granville St., Vancouver, B.C.	¾ lb...	30	. . ..
" 20	"	38422	Merilees Grocery, 2640 Main St., Vancouver, B.C.	3 tins.	25	.. ..
" 20	"	38423	Efford Bros., 244 Broadway E., Vancouver, B.C.	¾ lb...	30	.. ..
" 21	"	38424	Kelly's Grocery, 2333 Main St., Vancouver, B.C.	¾ " ..	30	.. . .
" 23	"	38425	F. Filion, Carral St., Vancouver, B.C.	¾ " ..	30	....
" 23	"	38426	F. Ayling, Cedar Cottage, Vancouver, B.C.	¾ " .	30	....
" 23	"	38427	Lyons Grocery, Commercial Drive Vancouver. B.C.	3 tins.	45	Guaranteed to be the finest quality and full strength.
" 23	" ...	38428	J. Main, Commercial Drive, Vancouver, B.C.	¾ lb...	30	....
			DISTRICT OF VICTORIA—			
Sept. 10	Ground Cloves. ...	49178	Windsor Grocery Co., 817 Douglas St., Victoria, B.C.	3 tins.	30	... .
" 11	"	49179	The West-End Grocery Co., Ltd., 1002 Government St., Victoria, B.C.	3 " .	30	"Empress" Brand.
" 12	"	49180	Copas & Young, 631 Fort St., Victoria, B.C.	3 " .	25	Anti-Combine Brand.

SESSIONAL PAPER No. 14

GROUND CLOVES.

Results of Analysis.											
Ash.		Volatile matter at 100°C.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.	Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
J. F. POWER, INSPECTOR.											
5·85	0·30	5·10	16·00	21·10	4·65	20·65	.....	.	Stems and a little starch. (Pimento).	38419	Normal.
4·50	0·15	4·30	21·70	26·00	4·05	25·75	..		A few stems and starch. (Pimento).	38420	"
5·05	0·20	5·45	12·25	17·70	4·75	17·00	.	. .	A large amount of starch.)Pimento).	38421	Low in Essential oil.
4·90	0·20	4·95	21·35	26·30	4·00	25·35	18·73	8·0	A few stems and traces of starch. (Pimento).	38422	Normal.
5·20	0·20	3·65	12·85	16·50	5·05	17·90	.....		Starch. (Pimento).	38423	Low in Essential oil.
5·65	0·25	4·15	13·20	17·35	4·80	18·00		..	A large amount of starch. (Pimento).	38424	"
6·45	0·20	4·70	13·15	17·85	4·70	17·85	..		A few stems and a large amount of starch. (Pimento).	38425	"
5·60	0·15	5·40	18·00	23·40	4·25	22·25			" " .	38426	Normal.
5·10	0·20	5·10	22·50	27·60	3·90	26·40	..	...	A few stems ...	38427	"
5·90	0·40	5·25	15·50	20·75	4·40	19·90	.	..	A few stems and starch. (Pimento).	38428	"
D. O'SULLIVAN, INSPECTOR.											
5·05	0·20	6·10	14·65	20·75	4·60	19·25	.....	.....	A few stems and starch. (Pimento).	49178	Normal.
·35	0·10	5·40	19·30	24·70	4·05	23·35	.....	.....	A few stems and a large amount of starch. (Pimento).	49179	"
·00	0·60	6·60	16·75	23·35	3·80	20·55	.....	. ....	Numerous stems and a little starch. (Pimento).	49180	Normal—except as to insoluble ash.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Inspector's Report. (Is not an expression of opinion).
			DISTRICT OF VICTORIA—			
1912.						
Sept. 16	Ground Cloves.....	49181	Acton Bros., 1917 Douglas St., Victoria, B.C.	3 tins.	30	"Empress" Brand.....
" 16	"	49182	H. & K. Grocery, Victoria, B.C.	3 lb.	30	" .....
" 19	"	49183	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	¾ lb...	30	. .....
" 20	"	49184	F. E. Plummer, 1118 Sundra St., Victoria, B.C.	3 tins.	30	"St. James" Brand.....
" 25	"	49185	Erskine & Co., 861 Johnston St., Victoria, B.C.	3 " .	30	"Victoria" Brand.....
Oct. 15	"	49186	Henry W. Driver, 856 Yates St., Victoria, B.C.	3 " .	30	"Gauntlet" Brand.....
" 15	"	49187	W. A. Jameson Coffee Co., 754 Broughton St., Victoria, B.C.	¾ lb...	30	....

GROUND CLOVES.

Results of Analysis												
Ash.		Volatile matter at 100°C.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
Total.	Acid Insoluble.	Moisture.	Oil.	Total.	Fixed oil.	Total oil.	Tannin.	Crude Fibre.	Microscopical Examination.		
Concluded.											
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.			
5·40	0·20	6·15	18·75	24·90	3·75	22·50	..	..	A few stems and a little starch. (Pimento).	49181	Normal.
5·50	0·20	6·20	18·25	24·45	3·90	22·15	..	.....	Numerous stems and a little starch. (Pimento).	49182	"
5·30	0·30	5·90	15·40	21·30	3·95	19·35	..	....	Starch. (Pimento).	49183	"
5·00	0·15	5·65	19·10	24·75	4·10	13·20	..	....	A few stems and a little starch. (Pimento).	49184	"
5·10	0·30	6·10	14·35	20·45	4·40	18·75	.....		Stems and starch (Pimento).	49185	"
5·10	0·20	6·45	19·60	26·05	3·70	23·30	.	.	A few stems and traces of starch (Pimento).	49186	"
6·75	0·35	3·60	13·80	17·40	5·10	18·60	...	....	Numerous stems and starch. (Pimento).	49187	Low in Essential oil.

APPENDIX Q.

BULLETIN No. 253—TURPENTINE SOLD AS A DRUG.

OTTAWA, March 20, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister, Inland Revenue.

SIR,—I have the honour to hand you a report dealing with 158 samples of Turpentine, purchased as a drug throughout Canada, in February and March of last year.

Quite extensive work done upon turpentine in these laboratories will be found published as Bulletin No. 79 (1901) and as Bulletin No. 211 (1910). The work referred to had for its object the ascertainment of such constants for turpentine (as used in the arts), as would enable a legal definition for such turpentine to be formulated.

An order in council passed in June, 1912, added turpentine to the fourth schedule of the Adulteration Act; and is published in Circular G. 1022 of this department.

PRIVY COUNCIL, CANADA.

AT THE GOVERNMENT HOUSE AT OTTAWA,

THURSDAY, the 6th day of June, 1912.

PRESENT:

HIS ROYAL HIGHNESS THE GOVERNOR GENERAL IN COUNCIL.

His Royal Highness the Governor General in Council, in virtue of the provisions of section 27 of chapter 133, Revised Statutes of Canada, 1906, 'An Act respecting the Adulteration of Food and other Articles,' is pleased to order as follows:—

Turpentine is hereby added to section 4 of the above described Act and the definition thereof shall be as hereinafter set forth:—

STANDARDS FOR TURPENTINE.

I. When turpentine is sold as a drug, for medical purposes or to the order of a physician, it shall meet pharmacopœal requirements as provided by section 7 of the said Act.

II. When turpentine is sold under any other conditions than for purposes of medicine, as above, it shall meet the following requirements:—

(1) It shall be entirely free from mineral oil.

(2) Unless sold as wood turpentine, it shall absorb not less than 340 times its weight of iodine (Hubl solution and method). If sold as wood turpentine it shall absorb not less than 240 times its weight of iodine by the same method.

(3) The undissolved (unpolymerized) residue on treatment of 10cc with 40cc of a sulphuric acid containing 20 per cent of the fuming acid, shall not exceed 10 per cent by volume of the sample.

(4) The refractive index of this residue shall be not less than 1·4950 at 20 deg. C.

(5 The refractive index of the sample at 20 deg. C. shall lie between 1·4680 and 1·4730.

(6) The specific gravity of the sample at 20 deg. C. shall not be less than 0·860.

(7) The initial boiling point shall not be lower than 150 deg. C. under ordinary atmospheric pressure.

(8) At least 75 per cent by volume shall distill below 160 deg. C.

(9) The residue on evaporation over a steam bath shall not exceed two (2) per cent.

RODOLPHE BOUDREAU,
Clerk of the Privy Council.

These definitions will render it possible to declare adulteration in the case of fraudulent substitutes for turpentine used as a paint material, or otherwise, in the arts.

But turpentine is also in use as a drug; and for its definition in this regard we must refer to the pharmacopœias....

The British Pharmacopœia (Ed. 1898) thus describes oil of turpentine:—

'The oil distilled, usually by the aid of steam, from the oleo-resin (turpentine) obtained from Pinus Sylvestris, and other species of pinus; rectified if necessary. Limpid, colourless, with a strong, peculiar odour, which varies in the different kinds of oil, and a pungent and somewhat bitter taste. It is soluble in its own volume of glacial acetic acid. It commences to boil at about 160 deg. C. and almost entirely distills below 180 deg. C. little or no residue remaining.'

The United States Pharmacopœia (Eighth Decennial Revision), defines turpentine as "A concrete oleo-resin obtained from Pinus palustris, and from other species of pinus"; and oil of turpentine as 'A volatile oil, recently distilled from turpentine. On distillation, the larger part passes over between 155 deg. and 162 deg. C.'

Other specific tests require it to be free from petroleum benzine, kerosene, or similar hydrocarbons.

Forty-one samples of the collection now reported, contain petroleum, and are therefore adulterated under section 7 of the Act. Four other samples are adulterated inasmuch as they fail to meet pharmacopœal requirements, although the character of the adulterant or adulterants is not so clearly made out. Five other samples I have judged 'doubtful,' and one sample is evidently a wood turpentine, and must therefore be regarded as adulterated. These results may be summarized thus:—

	Samples.
Adulterated, as containing petroleum	41
" variously	4
" as being wood turpentine	1
Doubtful	5
Apparently genuine	107
Total	158

The instructions issued to our inspectors required them to purchase turpentine in drug stores, and as used for dispensing.

These instructions appear not to have been closely followed in all cases. The inspector's reports show that in Nova Scotia one sample was accepted, altbough the vendor stated that he sold the article for "commercial purposes only," which may be understood to mean technical purposes only.

In Quebec all of the vendors declared that the article offered by them was dispensed only for "External use."

It may be remarked that the Pharmacopoeias do not distinguish between turpentine for external and for internal uses.

Correspondence with vendors, subsequent to examination of the article sold, brings statements from many to the effect that they sell turpentine for painters' use, or for removing stains from clothing, and not to any extent for medicinal purposes.

It is perfectly well known that the principal uses of turpentine are such technical uses as in paint or varnish, in shoe polishes, stain removers, etc. Even here it should be true turpentine as defined by Order in Council of June 6, 1912, quoted above.

The presence of petroleums (mineral oils) is equally an adulteration of turpentine whether this is sold for medicinal purposes or for uses in the arts.

This is the main adulteration of turpentine at present; and is evidently the result of a desire to find a market for cheap petroleum fractions at the price of turpentine.

It has been asserted that the intermixture of small percentages of petroleums does not injure turpentine for painters' use.

This statement is very difficult to believe when we consider the different behaviour of terpenes and petroleums to oxygen; but even were it true, the purchaser should be able to buy turpentine when he asks for turpentine, and pays the price of that article. If he desires to add petroleum to it, he can easily purchase the petroleum at its market price, and mix as he may please.

Or, if he is offered a mixture of turpentine with petroleums, the true character of such mixture should be made known to him at the time of sale, and it should not be offered him as turpentine.

Turpentine appears not to be made in Canada.: A large importing house in Montreal writes under date March 29: "Turpentine is an article that it is impossible for the jobber in Canada to control, as there is no turpentine manufacturer in this country; and if it is the intention of the government to prevent adulterated turpentine to be sold in this country, why do they not stop its importation? All the turpentine that we buy is bought for pure; and if it is not pure it is a matter that we have no control over whatever. We think, therefore, that the labour you have gone to, as far as turpentine is concerned, is wasted." This statement is echoed by several other correspondents.

If it be indeed true that Canada has no control over the quality of the article turpentine, the case is a sad one; and it should lead to renewed effort on the part of manufacturers to try still further to obtain a good wood turpentine from the extensive raw materials which are found in our country.

I have seen very good turpentine of Canadian manufacture, produced in experimental plants; and am not without hope that the production of turpentine may yet become a successful Canadian industry.

But, even should we be compelled to rely upon the imported article, it is certain that genuine turpentine is obtainable, if sufficient care in testing samples be taken. This is evidenced by the present report, in which 106 samples out of 158 are found to be pure. That adulterated turpentine is very widely found upon the United States markets is proved by the reports issued by the various Experiment Stations; and the following Notices of Judgment obtained in American courts, and published from Washington, are instructive:—

Notice of judgment.	Manufacturer.	Penalty.
No.		
220	Carolina Pine Products Co	Goods forfeited.
218	Heekins Turpentine	Fine $5.
337		" $10
539	Gulf Man. Co. Louisiana	" $10 and costs.
877	South Carolina Co	" $50.
929		Bond given $100.
1022		Goods destroyed.
1121		"
1373	Barclay Naval Stores Co	Bond given $100.
1443		Fine $20 and costs.
1608	Carolina Pine Products Co	Goods destroyed.
2109	U.S. Turpentine &c. Co., N.Y.	Suspended sentence.

In all the above cases, adulteration consisted in admixture of mineral oil in amount varying from 3 per cent to 35 per cent.

I am convinced that most of the importers and distributors of turpentine named in this report, and probably all of the immediate vendors, believed themselves to be suppplying genuine turpentine, or, at least, the best article procurable. If this report does nothing more than expose the facts of the case it will, I think, be justified, and if it leads Canadian importers of turpentine to take necessary precautions to procure a genuine article, and to refuse to buy adulterated goods, it will have performed a valuable service to the community. If we have not home-produced turpentine in Canada, we have at least home-produced petroleum and can make such additions of that article as we may think desirable.

As this is the first inspection of turpentine since its legal definition by Order in Council, I think it not unreasonable, in view of this fact, and of the above considerations, to suggest that no legal action be taken by the Department; but that the information furnished be regarded as advisory.

I beg to recommend publication of this report as Bulletin No. 253.

I have the honour to be, Sir,

Your Obedient Servant,

A. McGILL,

Chief Analyst.

BULLETIN No. 253—TABLE 1, PART I—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.									
1912.									
Feb- 9	Turpentine..	47001	H. E. Jones, Digby, N.S.....	1 pt..	30	Unknown	W. H. Thorne, St. John, N.B.	....	Genuine.
" 16	" ..	47002	Nat. Drug & Chem. Co., Halifax, N.S.	1 " .	30	Caroline Pine Tar Products Co., N.Y.	Manufacturers.....	.....	Contains petroleum
" 19	" .	47003	Brown Bros. & Co., Halifax, N.S.	1 " .	30	Unknown.....	Imperial Oil Co., Halifax, N.S.	. .. .	Genuine.
" 19	" ..	47004	G. A. Burbidge, Halifax, N.S.	1 " .	25	"	Nat. Drug Co., Halifax, N.S.	Sold for commercial purposes only.	Contains petroleum.
" 19	" ..	47005	E. S. Blackie, Halifax, N.S. ..	1 " .	20	"	" "	....	" "
" 19	" ..	47006	Buckley Drug Co., Halifax, N.S.	1 " .	25	"	Imperial Oil Co., Halifax, N.S.	.....	Genuine.
" 19	" ..	47007	Jas. D. Walsh, Halifax, N.S..	1 " .	20	"	Nat. Drug Co., Halifax, N.S.	....	Contains petroleum.
" 19	" ..	47008	G. McD. Taylor, Halifax, N.S.	1 " .	30	"	" "	....	"
" 22	" ..	47009	G. C. McDougall, Kentville, N.S.	1 " .	25	"	Canadian Drug Co., St. John, N.B.	....	Genuine.
29	" ..	47010	J. J. Kinley, Lunenburg, N.S.	1 " .	20	"	S. E. Mack, Lunenburg, N.S.	.....	"
DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.									
Feb. 6	Turpentine..	46116	Reddin Bros., Charlottetown, P.E.I.	1 pt..	30	.....	Fennel & Chandler, Charlottetown, P.E.I.	....	Genuine.
" 6	" ..	46117	J. G. Jamieson, Charlottetown, P.E.I.	1 " .	90	Lymans, Ltd., Montreal.	....	....	"

"	9	"	..	46118	McKinnon Drug Co., Charlottetown, P.E.I.	1	"	35	.....	W. H. Thorne, St. John, N.B.	Contains petroleum.
"	9	"	..	46119	The Two Mac's., (Geo. McDonald) Charlottetown, P.E.I.	1	"	30	Unknown	.....	" "
"	12	"	.	46120	C. D. Rankin, Charlottetown, P.E.I.	1	"	20	.....	S. W. Crabbe, Charlottetown, P.E.I.	Genuine.
"	12	"	.	46121	Johnson & Johnson, Charlottetown, P.E.I.	1	"	25	.....	Rogers Hardware Co., Ltd., Ch.Town, P.E.I.	"
"	15	"	..	46122	Gourlies, Ltd., Summerside, P.E.I.	1	"	25	.....	.....	Not genuine.
"	15	"	..	46123	P. N. Enman, Summerside, P.E.I.	1	"	25	.....	Brace McKay & Co., Summerside, P.E.I.	Genuine.
"	21	"		46124	H. J. Mabon, Souris, P.E.I.	1	"	35	Nat. Drug & Chem. Co., Halifax, N.S.	Manufacturers	Contains petroleum.
"	21	"	..	46125	Dr. A. McDonald, Souris, P.E.I.	1	"	30	Canadian Drug Co., St. John, N.B.	"	Genuine.

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Feb.	13	Turpentine..		45581	E. Clinton Brown, St. John, N.B.	1	pint	25	.....	S. Hayward Co., St. John	Genuine.
"	13	"		45582	A. C. Smith & Co., St. John, N.B.	3	"	20	.....	Nat. Drug & Chem. Co., Quebec.	"
"	13	"	.	45583	The Nat. Drug & Chem. Co., N.B.	3	"	20	Unknown	.....	Imported by Vendors from Southern States. "
"	13	"		45584	Wm. Hawker & Son, N.B.	3	"	25	.....	W. H. Thorne & Co., St. John, N.B.	"
"	27	"		45585	Johnston & Johnston, St. Stephen, N.B.	3	"	20		De Wolfe Bros., St. Stephen, N.B.	"
Mar.	5	"		45586	Chas. A. Burchill, Fredericton, N.B.	3	"	30	...	Jas. Neill & Sons, Fredericton, N.B.	Contains petroleum.
"	6	"	.	45587	The Baird Co., Ltd., Woodstock, N.B.	3	"	15	Carolina Pine Products Co., Cleveland, Ohio.	.....	"
"	12	"		45588	B. J. Sharp, Sussex, N.B.	3	"	20	.....	W. H. Thorne & Co., St. John.	"
"	13	"	.	45589	Fairweather Bros., Moncton, N.B.	3	"	20	.....	Summer & Co., Moncton, N.B.	Genuine.
"	14	"	.	45590	A. E. Shaw, Newcastle, N.B.	3	"	20	.....	Nat. Drug & Chem. Co., St. John.	"

BULLETIN No. 253—TABLE I, PART I.—TURPENTINE.

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				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.									
1912.									
Feb. 5	Turpentine..	37338	David Gagnon, 30 Rue St. Pierre, Que.	1 pint	25	Unknown	J. M. Noel, Quebec	For external use.	Genuine.
" 5	"	37339	Dr. Ed. Morin, 112 Cote Lamontagne St., Que.	1 "	25	"	Comp. Chimie, Quebec	"	"
" 5	"	37340	J. E. Livernois, St. Jean & Bouillard, Quebec.	1 "	23	Imperial Oil Co., Quebec	Mfrs	"	"
" 5	"	37341	" "	1 "	67	Unknown	Unknown	"	"
" 5	"	37342	F. C. Lachevrotière, 234 Rue St. Jean, Quebec.	1 "	75	"	Ed. Drum, Quebec	"	"
" 5	"	37343	" "	1 "	150	"	Lymans, Ltd., Montreal	"	"
" 5	"	37344	A. L. Jolicoeur, 338 Rue St. Jean, Quebec.	1 "	25	"	Unknown	"	"
" 5	"	37345	A. E. Francoeur, 379 Rue St. Jean, Quebec.	1 "	60	"	W. Brunet & Cie, Quebec	"	Contains petroleum.
" 8	"	37346	L. E. Martel, 51 Rue St. Joseph Quebec.	1 "	20	"	Unknown	"	Doubtful.
" 8	"	37347	Estate G. P. Plamondon, 122 Rue St. Joseph, Quebec.	1 "	20	"	J. E. Martineau, Quebec	"	Genuine.

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

14—24	Feb.	19	Turpentine..	39001	Dr. Comeau, Farnham.....	1	pint	30	Lyman's, Ltd., Montreal	Genuine.
	"	20	"	39002	P. P. Sabourin, St. Jean ..	1	"	20	Lyman Knox & Co., Montreal.	Contains petroleum.
	"	28	"	39003	Dr. Girouard, Drummondville.	1	"	50	N. D. & C. Co., Montreal	"
	Mar.	5	"	39004	L. E. Brown, Granby..... ..	1	"	40	Unknown	"
	"	7	"	39005	J. ,W. Johnson, Cowansville.	1	"	20	Buzzell Bros., Cowansville.	"
	"	12	"	39006	Pharmacie Larochelle, Sorel..	1	"	30	Lyman's, Ltd., Montreal	Genuine.
	"	19	"	39007	Pharmacie Massicotte, Victoriaville.	1	"	35	Lyman Knox & Co. Montreal.	Contains petroleum.
	"	19	"	39008	Dr. J. B. Dronin, Victoriaville	1	"	35	N. D. & C. Co., Montreal	"
	"	20	"	39009	Phar Bedard, Richmond	1	"	35	" "	"
	"	21	"	39010	John West, Magog.... ...	1	"	25	Drug Trading Co., Ltd , Toronto.	Genuine.

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

Feb.	6	Turpentine..	32686	J. A. D. Godbout, 54 Craig St. West, Montreal.	1	pint	40	Lyman's, Ltd., Montreal	Genuine.
"	6	"	32687	S. Choquet, 153 Amherst St , Montreal.	1	"	40		"
"	7	"	32688	R. Martineau, 1145 St Denis St., Montreal.	1	"	25		"
"	8	"	32689	M. Freeman, 63 St. Catherine St., W., Montreal.	1	"	40		Doubtful.
"	8	"	32690	L. G Ryan, 545 Notre Dame St West, Montreal.	1	"	25		Contains petroleum.
"	8	"	32691	C. L. B. Lippeu, 607 Notre Dame St., W., Montreal.	1	"	20		Genuine.
"	8	"	32692	H. Dugal, 803 Notre Dame St. W., Montr al.	1	"	40		Doubtful.
"	8	"	32693	O. Brault, 218 St. Antoine St., Montreal.	1	"	30	Lyman Knox Co.	Contains petroleum.
"	8	"	32694	Dr. Brault, 1011 St Lawrence B. Montreal.	1	"	20	Lyman Knox Co., Ltd , Montreal	"
"	8	"	3269	Louis Weinfeld, 1112 St. Lawrence B. Montreal.	1	"	30	Beaver Oil Co., Ltd., Montreal.	"

BULLETIN No. 253—TABLE I, PART I—TURPENTINE.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.	Remarks and Opinion of the Chief Analyst.
DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.									
1912.									
Feb. 7..	Turpentine..	50101	Medical Hall, Cornwall.....	1 pt.	30	Unknown.....	Queen City Oil Co ...	.....	Genuine.
" 9..	" ..	50102	Brock Ostrom & Son, Alexandria.	1 " .	30	"	Lymans, Ltd., Montreal.	.....	"
" 12..	" ..	50103	E. J. Durocher, Ottawa.....	16 ozs.	20	"	Ottawa Paint Works, Ottawa.	.....	Not genuine.
" 13..	" .	50104	The People's Drug Co., Ltd., Renfrew.	16 " .	20	"	Queen City Oil Co., Ottawa.	.....	Genuine.
" 13..	" ..	50105	Jas. Clark, Renfrew	16 " .	20	"	Lymans, Ltd., Montreal.	.....	"
" 19..	" ..	50106	Jos. G. Valiquette, Dalhousie St., Ottawa.	1 pt.	25	"	Queen City Oil Co., Ottawa.	.....	"
" 20..	" ..	50107	Allen & Cochrane, Ottawa. ..	16 ozs.	15	"	" "	.....	"
" 20..	" ..	50108	T. A. Brownlee, Ottawa	1 pt.	20	"	" "	.....	"
" 20..	" ..	50109	W. A. Henderson, Ottawa.....	1 " .	20	"	Ottawa Drug Co., Ottawa.	.....	Contains petroleum.
" 21..	" ..	50110	Beattie & Argue, Bronson Ave., Ottawa.	1 " .	20	"	Queen City Oil Co., Ottawa.	.....	Genuine.
DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.									
Feb. 5..	Turpentine .	49501	J. B. McLeod, Kingston.....	1 pt.	25	.....	N. C. Polson, Kingston..	.....	Genuine.
" 5..	" ..	49502	A. P. Chown, Kingston.....	1 " .	35	.....	Dalton & Son. Kingston.	.....	"

"	5	"	49503	W. H. Medley, Kingston	1	"	30		N. C. Polson, Kingston		"
"	6	"	49504	Geo. W. Mahood, Kingston	1	"	25		A. Chown & Co., Kingston, Ont.		Contains petroleum.
"	7	"	49505	A. L. Geen, Belleville	1	"	25	Southern U.S. Turpentine Co., Cleveland.			" "
"	7	"	49506	F. C. Clark, Belleville, Ont	1	"	30	Canada Paint Co., Montreal.			Genuine.
"	7	"	49507	D. M. Waters, Belleville	1	"	25	Queen City Oil Co., Toronto.			"
"	7	"	49508	T. Geo. Watson, Port Hope	1	"	30		Nat. Drug. Co., Toronto.		"
"	8	"	49509	McDermid & Jury, Peterboro.	1	"	25		Canada Oil Co., Toronto.		"
"	8	"	49510	E. L. Payne, Peterboro	1	"	35	Unknown			"

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Feb.	6	Turpentine	49337	T. H. Ralph, Dundas	1	pt.	20		Nat. Drug & Chem. Co., Hamilton.		Doubtful.
"	6	"	49338	W. M. Stewart Drug Co., Ltd., Grimsby.	1	"	25		A. B. Bourne, Grimsby.	Refined spt. of turpentine.	Genuine.
"	8	"	49339	G. A. Woodhouse, 153 King st. west, Hamilton.	1	"	20		Blaicher & Reche, Hamilton.		Doubtful.
"	13	"	49340	Fred. Murch, Main st. east, Toronto.	1	"	25		British Am. Oil Co., Toronto.		Contains petroleum.
"	13	"	49341	John Taylor, Port Credit.	1	"	20		Nat. Drug & Chem. Co., Ltd., Toronto.		" "
"	16	"	49342	J. F. Willis, Aurora	1	"	20		Queen City Oil Co., Ltd., Toronto.		Genuine.
"	16	"	49343	W. J. Patterson, Newmarket	1	"	25		The Drug Trading Co., Ltd., Toronto.		"
"	19	"	49344	J. E. A. White, Shelburne	1	"	25		Unknown		"
"	19	"	49345	L. F. Boyd, Thornbury	1	"	20		Whites Ltd., Collingwood.		Wood turpentine.
Mar.	1	"	49346	W. H. Lee, 261 Avenue road, Toronto.	1	"	25		Drug Trading Co., Ltd., Toronto.	Spts. turpentine.	Genuine.

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				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF LONDON—JNO. TALBOT, ACTING INSPECTOR.									
1912.									
Feb. 19	Turpentine..	47883	W. S. Cole, Exeter.	12 oz.	20		Nat. Drug Co., London..		Genuine.
" 19	"	47885	W. H. Howey, Exeter.	12 "	30		Drug Trading Co., Toronto.		"
" 20	"	47893	W. S. R. Holmes, Clinton	12 "	25		Harlem Bros, Clinton		"
" 20	"	47896	J. E. Hovey, Clinton	12 "	18		Nat. Drug Co., Hamilton.		"
" 20	"	48203	W. A. McConnell, Clinton	12 "	30		R. Rowen, Clinton		"
" 21	"	48210	Chas. Aberhart, Seaforth	12 "	30		G. A. Sells		"
" 22	"	48218	E. A. Robertson, Stratford	12 "	20		G. N. Ward & Son, Stratford.		"
" 22	"	48223	H. M. Myers, Stratford	12 "	25		Myers Hardware Co., Stratford.		"
" 24	"	48228	Frank H Smith & Co., St. Mary's.	12 "	40		Canada Paint Co.		"
DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.									
Feb. 9	Turpentine..	47863	W. T. Strong, London	12 oz.	25		Queen City Oil Co.		Genuine.
" 9	"	47865	Anderson & Nelles	12 "	30		Nat. Drug Co.		"
" 12	"	47872	Clement Drug Co., Sarnia	12 "	30		McKenzie Milne Co., Sarnia.		"
" 12	"	47873	R. T. Geary, Sarnia	12 "	25		N. D. Rugore, Sarnia		"
13		47879	W. T. Rapley, Strathroy	12 "	20		Nat. Drug Co.		"

"	6	"	48076	W. R. Lutz, London	12	"	15		Queen City Oil Co.		"
"	7	"	48090	C. T. Allen, London East.	12	"	25		Parsons Fair London East.		"
"	8	"	48097	Taylor Drug Co., London.	12	"	15		McLean Hardware Co., London.		"
"	9	"	48099	John E. Platt, London	12	"	Nil		Cowan Hardware Co.		"

DISTRICT OF MANITOBA—A. C. LARIVIERE INSPECTOR.

Feb.	19	Turpentine.	48621	North End Pharmacy, Winnipeg.	1	pint	35		The Nat. Drug Co., Winnipeg.		Contains petroleum.
"	19	"	48622	H. D. Campbell, Druggist, Winnipeg.	1	"	45		Imperial Oil Co., Winnipeg.		Genuine.
"	19	"	48623	Lamo Drug Co., Winnipeg.	1	"	45		Nat. Drug Co., Winnipeg.		Contains petroleum.
"	20	"	48621	Wm. McCullough, Druggist, Winnipeg.	1	"	45		Winnipeg Oil Co., Winnipeg		"
"	20	"	48625	The Gordon Mitchell Drug Co., Winnipeg.	1	"	30		Vendors		Genuine.
Mar.	12	"	48626	Sanders Drug Store, Carman	1	"	30				Contains petroleum.
"	14	"	48627	Cowan's Drug Store, Portage La Prairie.	1	"	30		The Nat. Drug & Chem Co., Winnipeg		Genuine.
"	14	"	4862	B. M. Connift, Druggist, Portage La Prairie.	1	"	20		Winnipeg Oil Co., Winnipeg		Contains petroleum.
"	19	"	48629	Robertson's Drug Store, Brandon	1	"	50		Winnipeg Oil Co., Winnipeg		"
"	19	"	48630	McCulloch's Drug Store, Brandon.	1	"	35		Hanbury Hardware Co., Brandon.		Not genuine.

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

Mar.	8	Turpentine.	44101	E. Hardisty, Edmonton.	1	pint.	30		T. H. Smart, Edmonton.		Contains petroleum.
"	8	"	44102	J. M. Sissons, Edmonton	1	"	30		Sommerville Hardware Co., Edmonton.		Genuine.
"	8	"	44103	G. T. McCallum, Edmonton.	1	"	30	Lyman Bros. & Co., Toronto, Ont.			"
"	8	"	44104	J. H. Lives, Edmonton	1	"	30		Sommerville Hardware Co., Edmonton.		Contains petroleum.
"	8	"	44105	E. M. Carpenter	1	"	30		" "		"
"	18	"	44106	Oliver Bros., Ltd., Calgary	1	"	25		C. C. Snowdon, Calgary.		Genuine.

BULLETIN No. 253—TABLE I, PART I.—TURPENTINE.

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				Quantity.	Cents.	Manufacturer.	Furnisher.		
DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR—*Concluded.*									
1912.									
Mar. 18	Turpentine.	44107	The McDiarmid Drug Co., Calgary.	1 pint.	25	.....	G. F. Stephens, Calgary.	.....	Genuine.
" 18	" ..	44108	McFarlane & White, Calgary..	1 " .	25	.....	Canadian Oil Co., Calgary.	.....	Contains petroleum.
" 18	" ..	44109	McCutcheon & McGill, Calgary	1 " .	25	.....	C. C. Snowdon, Calgary.	.....	"
" 18	" ..	44110	" " ..	1 " .	25	.....	" " ..	.....	"
DISTRICT OF NELSON—THOS. PARKER, INSPECTOR.									
Feb. 13	Turpentine..	48487	Mallory Drug Co., Kamloops, B.C.	12 oz..	30	.....	Nat. Drug Co., Montreal.	.....	Genuine.
" 13	" ..	49603	J. H. Clements, Kamloops, B.C.	12 " .	35	.....	N. S. Dalgleish, Kamloops.	.....	"
" 13	" ..	49604	A. Galloway, Kamloops. B.C..	12 " .	30	.....	" " ..	.....	"
" 20	" ..	49628	W. M. Huston, Ashcroft, B.C.	12 " .	30	.....	M. Dumond, Ashcroft...	.....	"
" 26	" ..	49632	Canada Drug & Book Co., Nelson, B.C.	12 " .	25	.....	Nelson Hardware Co., Nelson.	.....	"
" 26	" ..	49633	Poole Drug Co., Nelson, B.C..	12 " .	25	.....	Teeporten & Co., Vancouver.	.....	"
" 26	" ..	49634	W. Rutherford, Nelson, B.C ..	12 " .	35	.....	Lymans Ltd., Montreal.	.....	Not genuine.
Mar. 6	" ..	49636	A. Stewart, Eholt, B.C	12 " .	30	.....	Russell, Law & Caulifield, Greenwood, B.C.	.....	Genuine.
" 7	" ..	49637	J. Love, Phœnix, B.C	12 " .	50	.....	Morrin, Thomson & Co., Phœnix B.C.	.....	"
" 8	" ..	49638	Woodland & Co., Grand Forks, B.C.	12 " .	30	Imperial Oil Co., Winnipeg.	.....	.....	"

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

Feb.	14	Turpentine..	38285	G. H. Cowan Drug Co., Chilliwack, B.C.	1	pint	45	Br. Am. Paint Co., Victoria.	....	Contains petroleum.
"	14	"	38286	H. J. Barbor, Chilliwack, B.C.	1	"	50	Unknown	....	Genuine.
"	14	"	38287	W. W. Copeland, Abbotsford, B.C.	1	"	60	Nat. Drug Co., Vancouver.	....	"
"	14	"	38288	A. Stephen, Mission Jct., B.C.	1	"	45	" "	....	"
"	14	"	38289	A. R. Willard, Westminster Jct., B.C.	1	"	75	" "	....	"
"	19	"	38290	H. Ryall, New Westminster, B C.	1	"	40	Imperial Oil Co., New Westminster.	....	"
"	19	"	38291	D. S. Curtis & Co., New Westminster, B C.	1	"	50	" "	....	"
"	19	"	38292	T. A. Muir & Co., New Westminster, B C.	1	"	45	" "	....	"
"	19	"	38293	McKenzie's Pharmacy, New Westminster, B.C.	1	"	50	" "	....	"
"	20	"	38294	E. H. Hall, Eburne, B.C....	1	"	30	Durand Imperial Co, Vancouver.	....	"

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Mar.	11	Turpentine..	49120	D. E. Campbell, Victoria, B.C.	1	pint	25	B. Am. Paint Co., Ltd, Victoria, B C.	....	Genuine.
"	11	"	49121	W. S. Terry, Victoria, B C. ..	1	"	25	The Staneland Co., Victoria, B C.	....	"
"	11	"	49122	John Cochrane, Victoria, B C	1	"	25	Melrose Co., Ltd., Victoria, B C.	....	"
"	11	"	49123	Hall & Co., Victoria, B C ...	1	"	35	B. A. Paint Co., Ltd., Victoria, B.C.	....	"
"	11	"	49124	Wm. Jackson & Co., Victoria,	1	"	35	Melrose Co., Ltd., Victoria, B C.	....	"
"	12	"	49125	Geo. A. Fraser, Victoria, B.C	1	"	25	Nat. Drug & Chem Co., Ltd., Victoria, B C.	....	"
"	12	"	49126	F. J. Williams, Victoria, B.C	1	"	25	" "	....	"
"	12	"	49127	Ivel's Pharmacy, Victoria, B.C.	1	"	25	Spragge & Co., Victoria, B C.	....	"
"	12	"	49128	BC. Drug Store, Victoria, B.C.	1	"	25	Nat. Drug & Chem. Co., Ltd., Victoria, B C.	....	"
"	12	"	49129	Nat Drug & Chem. Co., Ltd, Victoria.	1	"	25	Imperial Oil Co., Vancouver, B.C.	....	"

BULLETIN No. 253—TABLE I,

RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp. Gr. 15.5°C.	Residue 10 cc. 40 cc. acid.	Ref. Index 20°C. Residue.	Ref. Index 20°C. Turpentine.	Boiling Point of Fractions from 100 cc. 1st 25 cc	2nd 25 cc.	3rd 25 cc.	Next 15 cc.
			cc.			° °	° °	° °	° °
Nova Scotia	47001	·8689	1·7	1·4794	1·4687	154 – 155	– 159	– 163	– 172
	47002	·8564	4·3	1·4623	1·4652	155 – 164	– 171	– 194	
	47003	·8950	·7	1·5060	1·4750				
	47004	·8568	4·3	1·4650	1·4652	156 – 163	– 171	– 194	
	47005	·8598	4·2	1·4646	1·4662	156 – 164	– 170	– 189	
	47006	·8709	·8	1·5042	1·4705				
	47007	·8569	4·4	1·4642	1·4652	155 – 164	– 172	– 194	
	47008	·8580	4·2	1·4644	1·4664	153 – 162	– 167	– 190	– 227
	47009	·8745	·8	1·5060	1·4716				
	47010	·8709	·7	1·5035	1·4725				
Prince Edward Island	46116	·8702	·9	1·5013	1·4706				
	46117	·8762	·8	1·5017	1·4705				
	46118	·8514	4·5	1·4544	1·4630	155 – 164	– 170	– 191	
	46119	·8770	4·1	1·4620	1·4651	153 – 162	– 169	– 192	
	46120	·8685	·8	1·5051	1·4704				
	46121	·8799	·8	1·5010	1·4720				
	46122	·8713	1·6	1·4781	1·4682	153 – 158	– 163	– 168	– 191
	46123	·8718	·9	1·5024	1·4700				
	46124	·8517	4·4	1·4570	1·4630	150 – 160	– 168	– 190	
	46125	·8722	·9	1·5026	1·4709				
New Brunswick	45581	·8712	1·0	1·5023	1·4710				
	45582	·8750	·8	1·5023	1·4704				
	45583	·8808	·8	1·5032	1·4726				
	45584	·8861	·8	1·5024	1·4731				
	45585	·8705	·9	1·5038	1·4718				
	45586	·8739	3·1	1·4572	1·4657	153 – 160	– 166	– 181	
	45587	·8593	4·2	1·4670	1·4660	156 – 164	– 170	– 192	
	45588	·8703	3·0	1·4633	1·4680	152 – 162	– 169	– 189	
	45589	·8766	1·1	1·5014	1·4718				
	45590	·8716	·9	1·5022	1·4704				
Quebec	37338	·8764	·9	1·4974	1·4710	154 – 157	– 158	– 161	– 170
	37339	·8766	1·1	1·4900	1·4705				
	37340	·8739	·9	1·4983	1·4716	154 – 157	158	– 159	– 167
	37341	·8669	·8	1·5010	1·4683				
	37342	·8765	·9	1·4960	1·4725				
	37343	·8831	·9	1·5006	1·4728				
	38344	·8781	·9	1·4994	1·4722				
	37345	·8612	2·1	1·4651	1·4650	153 – 157	– 159	– 163	– 173
	37346	·8730	1·3	1·4848	1·4700	154 – 158	– 160	– 165	– 195
	37347	·8987	·8	1·4978	1·4756				
St. Hyacinthe	39001	·8773	1·0	1·5009	1·4705				
	39002	·8633	4·3	1·4614	1·4640	153 – 162	– 169	– 185	– 224
	39003	·8708	4·5	1·4589	1·4614	149 – 160	– 166	– 177	– 202
	39004	·8682	3·9	1·4580	1·4651	150 – 162	– 169	– 190	
	39005	·8477	5·0	1·4560	1·4610	155 – 161	– 170	– 193	
	39006	·8729	1·0	1·4980	1·4708	154 – 157	– 159	– 161	– 178
	39007	·8508	4·5	1·4597	1·461	149 – 159	– 161	– 176	– 205
	39008	·8644	4·2	1·4608	1·4660	150 – 160	– 170	– 200	
	39009	·8513	4·6	1·4601	1·4620	152 – 162	– 169	– 187	
	39010	·8740	·9	1·5027	1·4712				
Montreal	32686	·8719	1·0	1·5014	1·4700				
	32687	·8740	·9	1·5030	1·4701				
	32688	·8763	1·0	1·5000	1·4716				
	32689	·8688	1·5	1·4587	1·4696	154 – 158	– 158	– 163	– 173
	32690	·8504	4·1	1·4584	1·4617	148 – 160	– 167	– 177	– 205
	32691	·8821	·6	1·5049	1·4742				
	32692	·8780	1·3	1·4954	1·4714	152 – 157	– 158	– 162	– 178
	32693	·8581	4·2	1·4642	1·4673	155 – 164	– 169	– 194	
	32694	·8533	4·2	1·4616	1·4631	153 – 162	– 169	– 187	
	32695	·8601	4·1	1·4616	1·4650	155 – 163	– 170	– 194	

SESSIONAL PAPER No. 14

PART II—TURPENTINE

ANALYSIS.

Refractive Index 20°C. of Fractions and Residues.						Volumes obtained from 100 cc									No. of Sample.	Remarks and Opinion of the Chief Analyst.
I.	II.	III.	IV.	Residual 10 cc.	Residual 25 cc.	Under 150°C	150°-154°.	155°-159°.	160°-164°.	165°-169°.	170°-174°.	175°-179°.	180°-184°.	185°-189°.	190° and over	
1·4631	1·4655	1·4668	1·4674	1·4862	..	..	3	5	20	8	2	..	..	..	..	47001 Genuine.
1·4608	1·4634	1·4644	.....	.....	1·4720	..	..	9	22	16	13	6	4	3	17	47002 Contains petroleum.
..	..	..	....	....	..	..	..	..	..	..	..	..	..	..	..	47003 Genuine.
1·4616	1·4642	1·4646	.....	.....	1·4712	..	..	9	21	14	11	8	4	3	17	47004 Contains petroleum.
1·4625	1·4651	1·4660	....	...	1·4725	..	..	11	15	20	11	7	5	4	15	47005 " "
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	47006 Genuine.
1·461	1·4638	1·4645	..	..	1·4708	..	..	8	19	18	12	8	4	3	18	47007 Contains petroleum.
1·461	1·4645	1·4651	1·4661	1·4781	....	..	2	15	25	18	6	5	4	2	14	47008 " "
.. ..	..	..	.....	..	..	..	..	..	..	..	..	..	..	..	..	47009 Genuine.
....	.....	.....	....	.	....	..	..	..	..	..	..	..	..	..	..	47 10 "
.....	.. .. ..	.. ..	....	.	..	..	..	..	..	..	..	..	..	..	..	46116 "
....	.....	.. ..	....	.	..	..	..	..	..	..	..	..	..	..	..	46117 "
1·457	1612	1·4630	...	...	1·4694	..	..	12	19	17	13	6	4	..	6	46118 Contains petroleum.
1·45 0	1·4630	1·4638	..	.	1·4746	..	1	15	15	17	8	7	4	2	17	46119 " "
.. ..	..	..	...	..	..	..	..	..	..	..	..	..	..	..	..	46120 Genuine.
.. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	46121
1·4651	1·4673	1·4680	1·4721	1·5054	..	..	4	30	27	17	3	2	2	1	..	46122 Not genuine.
....	.. ..	.. ..	.. ..	..	..	..	..	..	..	..	..	..	..	..	..	46 23 Genuine.
1·454	1·4613	1·4646	.....	...	1·4768	..	8	1	18	13	8	6	5	2	15	4 121 Contains petroleum.
..	....	...	.....	....	..	..	..	..	..	..	..	..	..	..	..	461.5 Genuine.
.....	...	.....	.....	....	..	..	..	..	..	..	..	..	..	..	..	4 581 "
.....	.	.. ..	.. ..	..	..	..	..	..	..	..	..	..	..	..	..	15 82 "
.....	.....	.	.. ..	.	.	..	..	..	..	..	..	..	..	..	..	45 83 "
.....	..	.....	....	..	..	..	..	..	..	..	..	..	..	..	..	4584 "
.....	.....	.. ..	....	..	..	..	..	..	..	..	..	..	..	..	..	45585 "
1·457	1·4617	1·4638	....	..	1·4873	..	10	14	18	21	6	4	3	2	1	45586 Contains petroleum.
1·462	1·4646	1·4654	....	..	1·4720	..	..	7	23	18	12	6	4	3	17	45 87 " "
1·460	1·4641	1·4670	....	..	1·4874	..	4	..	22	20	7	6	5	2	15	45 88 " "
.....	.....	.. ..	....	.....	.....	..	..	..	..	..	..	..	..	..	..	45589 Genuine.
..	.. ..	.. ..	.. ..	..	..	..	..	..	..	..	..	..	..	..	..	45590 "
1·467	1·4690	1·4700	1·4720	1·4993	..	..	3	6	2	4	..	..	..	..	..	373 8 "
.. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37339 "
1·467	1·4682	1·4696	1·4716	1·4944	....	..	3	6	9	2	..	..	..	..	..	37340 "
... ..	.. ..	.....	.. ..	..	..	..	..	..	..	..	..	..	..	..	..	37341 "
.....	.	.. ..	.. ..	..	..	..	..	..	..	..	..	..	..	..	..	37342 "
.....	.	.. ..	....	..	..	..	..	..	..	..	..	..	..	..	..	37343 "
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37344 "
1·4620	1·4648	1·4625	1·4670	1·4790	..	..	..	8	24	7	4	..	..	..	..	37345 Contains petroleum.
1·4655	1·4677	1·4687	1·4727	1·5124	..	..	3	10	2	7	4	2	1	1	..	37346 Doubtful.
.. ..	..	.....	.. ..	..	..	..	..	..	..	..	..	..	..	..	..	37347 Genuine.
.. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	39001 "
1·458	1·4620	1·4639	1·465	1·4790	..	..	2	6	23	13	9	7	3	3	3	39002 Contains petroleum.
1·455	1·4604	1·4625	1·4638	1·4793	..	..	6	15	21	17	9	7	4	..	..	39003 " "
1·4 00	1·4620	1·4644	..	..	1·4834	..	6	14	17	15	10	6	5	2	15	39004 " "
1·4560	1·4582	1·4605	..	..	1·4710	..	..	15	18	18	10	6	5	4	16	39005 " "
1·467	1·4689	1·4700	1·4716	1·4944	.....	..	4	61	3	2	..	..	..	..	..	39006 Genuine.
1·4651	1·4655	1·4628	1·4635	1·4742	..	2	7	18	23	14	8	7	3	2	6	39007 Contains petroleum.
1·4 0	1·4622	1·4661	.....	....	1·4837	..	8	14	1	11	10	5	5	3	17	39008 " "
1·4561	1·4612	1·4627	..	..	1·4760	..	5	11	24	12	12	6	3	..	14	39009 " "
....	.. ..	..	.....	....	..	..	..	..	..	..	..	..	..	..	..	39010 Genuine.
....	.....	...	.....	....	..	..	..	..	..	..	..	..	..	..	..	32686 "
..	....	.....	.....	.	....	..	..	..	..	..	..	..	..	..	..	32687 "
..	.. ..	.. ..	.....	..	..	..	..	..	..	..	..	..	..	..	..	32688 "
1·4668	1·4684	1·4684	1·4708	1·4958	.....	..	..	3	58	19	8	3	..	..	..	32689 Doubtful.
1·4566	1·4610	1·4624	1·4631	1·4763	... ..	2	7	16	22	14	10	7	4	2	1	32690 Contains petroleum.
.. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	32691 Genuine.
1·4582	1·4698	1·4704	1·5061	1·5060	.....	..	5	57	20	6	1	1	..	..	..	32692 Doubtful.
1·4623	1·4617	1·4651	.. ..	..	1·4718	..	..	8	22	20	19	6	4	3	17	326 3 Contains petroleum.
1·4584	1·4631	1·4 32	....	.....	1·471	..	..	14	19	15	11	7	4	5	12	32694 " "
1·4597	1·4628	1·4645	.....	.....	1·4760	..	..	6	27	15	11	6	5	3	17	32695 " "

4 GEORGE V., A. 1914

BULLETIN No. 253—TABLE I

RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp. Gr. 15.5°C.	Residue 10 cc. 40 cc. acid.	Ref. Index 20°C. Residue.	Ref. Index 20°C. Turpentine.	Boiling Point of Fractions from 100 cc.			
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.
			cc.			° °	° °	° °	° °
Ottawa	50101	·8742	1·1	1·4998	1·4716				
	50102	·8829	1·0	1·4998	1·4728				
	50103	·8543	2·5	1·4620	1·4637	145 – 154	– 157	– 159	– 164
	50104	·8796	1·1	1·5002	1·4720				
	50105	·8671	1·0	1·5040	1·4710				
	50106	·8683	1·0	1·4944	1·4698				
	50107	·8688	1·2	1·4978	1·4691				
	50108	·8730	1·2	1·4923	1·4706	151 – 159	– 163	– 177	
	50109	·8512	4·4	1·4590	1·4617	150 – 160	– 164	– 173	– 197
	50110	·8742	1·2	1·4898	1·4718	150 – 158	– 162	– 164	– 190
Kingston	49501	·8707	·8	1·5040	1·4700				
	49502	·8672	·8	1·5066	1·4700				
	49503	·8671	·8	1·5080	1·4704				
	49504	·8522	4·0	1·4600	1·4621	153 – 159	– 163	– 170	– 193
	49505	·8580	3·0	1·4667	1·4651	154 – 158	– 161	– 167	– 179
	49506	·8697	·8	1·5058	1·4701				
	49507	·8714	1·2	1·4936	1·4720	155 – 157	– 158	– 161	– 170
	49508	·8724	1·1	1·5020	1·4705	156 – 158	– 158	– 159	– 162
	49509	·8709		1·5051	1·4709				
	49510	·8716	·8	1·5055	1·4707				
Toronto	49337	·8690	1·3	1·4952	1·4698	156 – 158	– 158	– 159	– 164
	49338	·8739	·9	1·5034	1·4726				
	49339	·8689	1·3	1·4982	1·4696				
	49340	·8585	2·5	1·4661	1·4630	152 – 158	– 159	– 165	– 180
	49341	·8547	2·8	1·4594	1·4640	152 – 159	– 162	– 171	– 210
	49342	·8761	·8	1·4910	1·4670				
	49343	·8724	1·1	1·5033	1·4709				
	49344	·8665	1·0	1·5030	1·4690				
	49345	·8650	1·7	1·4850	1·4688	142 – 156	– 160	– 164	– 176
	49346	·8683	1·1	1·5015	1·4703				
London	47883	·8753	·9	1·4960	1·4709	152 – 158	– 160	– 164	– 196
	47885	·8754	·9	1·5030	1·4716				
	47893	·8714	·8	1·5007	1·4701				
	47895	·8747	·7	1·5030	1·4708				
	48203	·8778	1·1	1·4956	1·4718				
	48210	·8678	1·0	1·5030	1·4705				
	48218	·8747	1·2	1·4930	1·4706	155 – 158	– 159	– 162	– 174
	48223	·8702	1·0	1·5049	1·4700				
	48228	·8753	1·2	1·4961	1·4710	154 – 158	– 159	– 162	– 171
Windsor	47863	·8742	1·0	1·5002	1·4708				
	47865	·8717	·8	1·5033	1·4703				
	47872	·8711	·9	1·4979	1·4707				
	47873	·8737	·9	1·5020	1·4710				
	47879	·8712	·8	1·5030	1·4707				
	48076	·8700	·9	1·4922	1·4702				
	48090	·8695	·9	1·5020	1·4705				
	48097	·8710	·9	1·5018	1·4706				
	48099	·8685	·9	1·5040	1·4700				
Manitoba	48621	·8605	2·1	1·4728	1·4678	154 – 157	– 159	– 164	– 183
	48622	·8716	1·0	1·5024	1·4700				
	48623	·8620	2·2	1·4727	1·4668	155 – 158	– 160	– 163	– 185
	48624	·8606	2·5	1·4660	1·4666	154 – 159	– 161	– 166	– 199
	48625	·8679	·9	1·5049	1·4700				
	48626	·8703	2·1	1·4693	1·4681	150 – 157	– 160	– 167	– 202
	48627	·8740	1·1	1·4873	1·4692	155 – 159	– 160	– 162	– 179
	48628	·8793	2·1	1·4760	1·4711	153 – 161	– 166	– 187	
	48629	·8639	2·0	1·4696	1·4671	155 – 158	– 160	– 165	– 195
	48630	·8665	1·7	1·4758	1·4679	154 – 158	– 160	– 163	– 175

SESSIONAL PAPER No. 14

PART II—TURPENTINE.

Analysis.

Refractive Index 20°C. of Fractions and Residues.						Volumes obtained from 100 cc.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
I.	II.	III.	IV.	Residual 10 cc.	Residual 25 cc.	Under 150° C.	150°–154°.	155°–159°.	160°–164°.	165°–169°.	170°–174°.	175°–179°.	180°–184°.	185°–189°.	190° and over		
																50101	Genuine.
																50102	"
1·4514	1·4617	1·4658	1·4686	1·4848			5	24	18	13						50103	Not genuine.
																50104	Genuine.
																50105	"
																50106	"
																50107	"
1·4667	1·4681	1·4710			1·4986			8	21	29	12	4	3	2	2	9	50108	"
1·4556	1·4610	1·4629	1·4636	1·4725				6	19	27	16	9	5	3	2	3	50109	Contains petroleum.
1·4641	1·4676	1·4695	1·4738	1·5120				8	37	31	5	2	2	1	1		50110	Genuine.
																	49501	"
																	49502	"
																	49503	"
1·4583	1·4616	1·4630	1·4637	1·4728				4	23	31	17	5	1	3	2	1	49504	Contains petroleum.
1·4618	1·4649	1·4650	1·4657	1·4754				3	30	31	12	6	2				49505	"
																	49506	Genuine.
1·4684	1·4699	1·4697	1·4711	1·4887					67	19	4						49507	"
1·4691	1·4700	1·4707	1·4723	1·4875					82	8							49508	"
																	49509	"
																	49510	"
1·4678	1·4684	1·4690	1·4700	1·4821					82	8							49357	Doubtful.
																	49358	Genuine.
																	49359	Doubtful.
1·4600	1·4640	1·4660	1·4681	1·4968				6	49	20	9	3	2				49340	Contains petroleum
1·4627	1·4653	1·4669	1·4612	1·4686				4	26	32	11	6	3	2	2	4	49341	
																	49342	Genuine
																	49343	"
																	49344	"
1·4643	1·4675	1·4691	1·4704	1·4830			8	12	29	26	10	4	1				49345	Wood turpentine
																	49346	Genuine.
1·4675	1·4682	1·4691	1·4729	1·5081				5	42	30	5	4	2	1	1		47883	"
																	47885	"
																	47893	"
																	47896	
																	48203	"
																	48210	"
1·4675	1·4682	1·4690	1·4704	1·4954					70	13	5	2					48218	"
																	48223	"
1·4664	1·4682	1·4690	1·4708	1·4977				2	30	23	5						48228	"
																	47863	"
																	47865	"
																	47872	"
																	47873	"
																	47879	"
																	48076	"
																	48090	"
																	48097	"
																	48099	
1·4658	1·4661	1·4673	1·4685	1·4730				3	52	21	8	3	2	1			48621	Contains petroleum.
																	48622	Genuine.
1·4647	1·4660	1·4670	1·4675	1·4710					48	31	5	3	2	1			48623	Contains petroleum.
1·4629	1·4653	1·4664	1·4669	1·4762				3	26	45	6	4	2	1	1	2	48624	"
																	48625	Genuine.
1·4616	1·4665	1·4680	1·4700	1·4894				5	41	24	8	5	1	1	1	4	48626	Contains petroleum.
1·4663	1·4679	1·4685	1·4702	1·4936					48	32	6	2	2				48627	Genuine.
1·4676	1·4687	1·4704			1·4896			3	17	21	16	7	5	2	2	14	48628	Contains petroleum.
1·4640	1·4664	1·4687	1·4688	1·4820					46	29	6	3	2	2	1	1	48629	"
1·4654	1·4670	1·4680	1·4688	1·4815				3	47	30	7	3					48630	Not genuine.

BULLETIN No. 253—TABLE I,

RESULTS OF

Name of Inspectoral District.	No. of Sample.	Sp.Gr. 15.5°C.	Residue 10 cc. 40 cc. acid.	Ref. Index 20 C. Residue.	Ref. Index 20°C. Turpentine.	Boiling Point of Fractions from 100 cc.			
						1st 25 cc.	2nd 25 cc.	3rd 25 cc.	Next 15 cc.
			cc.			° °	° °	° °	° °
Calgary	44101	·8604	2 2	1·4672	1·4664	155 – 158	– 160	– 164	– 188
	44102	·8714	1·1	1·4916	1·4703				
	44103	·8708	·9	1·5012	1·4709				
	44104	·8598	2·5	1·4684	1·4664	154 – 158	– 160	– 166	– 188
	44105	·8648	1·8	1·4718	1·4678	154 – 158	– 159	– 162	– 179
	44106	·8690	·8	1·4984	1·4700	154 – 158	– 158	– 159	– 164
	44107	·8698	1·0	1·4895	1·4696				
	44108	·8599	2·0	1·4685	1·4668	153 – 158	– 160	– 164	– 187
	44109	·8628	2 0	1·4688	1·4674	154 – 159	– 160	– 166	– 194
	44110	·8622	2 0	1·4705	1·4670	154 – 158	– 160	– 164	– 190
Nelson	48487	·9218	7	1·50 7	1·4757				
	49603	·8660	1·1	1·4957	1·4700				
	49604	·8737	1·0	1·4964	1·4710				
	49628	·8698	·9	1·5008	1·4700				
	49632	·8714	·8	1·5068	1·47 0				
	4963	·8714	·9	1·5000	1·4701				
	4 634	·8667	1·6	1·4767	1·4678	155 – 158	– 158	– 163	– 174
	49636	·8692	1 1	1·4994	1·4695				
	49 37	·8703	1·1	1·5016	1·4708				
	49638	·8746	1 1	1·5010	1 4708				
Vancouver	382 5	·8 07	4·4	1·4583	1 4618	152 – 160	– 167	– 185	– 235
	38 80	·8750	1·0	1·4976	1·4712				
	38287	·8742	·9	1·5021	1·4707				
	38288	·8722	·9	1·5026	1 4700				
	38289	·8692	·9	1·5054	1·4701				
	38290	·8724	1·1	1·5009	1·4704				
	38291	·8722	1 0	1·50.3	1·4 18				
	38 92	·8809	·7	1·5003	1 4712				
	38293	·8720	1·0	1 5011	1 4703				
	38294	·8712	1·0	1·5000	1·4700				
Victoria	49 20	·8692	1 1	1·4964	1·4701				
	49121	·8692	1·1	1 4986	1·4698				
	49122	·8697	·9	1·4978	1·4700				
	49123	·87 4	·9	1·4980	1 4 03				
	4912	·8692	1·1	1·4988	1·4708				
	49125	·8717	·8	1·5018	1·4712				
	491 6	·8855	7	1 5036	1 475				
	49127	·8730	1·0	1 499	1·4703				
	49128	·8825	·7	1 5044	1 4726				
	4 12	·8 92	·8	1					

SESSIONAL PAPER No. 14

PART II—TURPENTINE.

ANALYSIS.

Refractive Index 20°C. of Fractions and Residues.						Values obtained from 100 cc.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
I.	II.	III.	IV.	Residual 10 cc.	Residual 25 cc.	Under 150°C	150–154°.	155°–159°.	160°–164°.	165–169°.	170–174°.	175–179°.	180–184°.	185–189°.	190 and over	
1·1637	1·4665	1·4674	1·4680	1·4782				50	27	5	4	2	1	1		44101
																44102
																44103
1·1·46	1·4664	1·4675	1·4680	1·4766			3	37	34	7	4	2	2	1		44104
1·4650	1·4668	1·4672	1·4685	1·4810			2	18	31	5	3	1				44105
1·4681	1·4690	1·4691	1·4710	1·4848			3	7	13							44106
																44107
1·1650	1·4664	1·4670	1·4678	1·4726			3	17	23	8	4	2	1	1	1	44108
1·4653	1·4670	1·4684	1·4686	1·4821			3	17	29	4	4	1	1	1		44109
1·1654	1·4670	1·4679	1·4685	1·4776			2	41	32	8	3	2	1	1		44110
																48187
																49603
																49604
																49628
																49632
																49633
1·4651	1·4660	1·4671	1·4683	1·4856				63	17	7	3					49631
																49636
																49637
																49638
1·1578	1·4619	1·1631	1·1601	1·4898			6	15	21	13	9	5	3	3	12	38285
																38286
																38287
																38288
																38289
																38290
																38291
																38292
																38293
																38294
																49120
																49121
																49122
																49123
																49124
																49125
																49126
																49127
																49128
																49129

Remarks and Opinion of the Chief Analyst.
Contains petroleum.
Genuine.
"
Contains petroleum.
"
Genuine.
"
Contains petroleum.
"
"
Genuine.
"
"
"
"
"
Not genuine.
Genuine.
"
"
Contains petroleum.
Genuine.
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APPENDIX R.

BULLETIN No. 254—BRAN, SHORTS AND CHOP FEED.

OTTAWA, May 20, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister Inland Revenue.

SIR,—I have the honour to hand you a report upon 396 samples of feeds sold as bran, shorts or middings and chops.

These samples were purchased throughout Canada in September and October last; and may be taken fairly to represent the character of cattle feed offered under the above names.

As explained in Bulletin No. 231 (February, 1912), which contains a report of our last inspection of Unregistered Feeds, an Order in Council of May 3, 1911, requires these feeds to possess minimum values as below:—

—	Proteids.	Fat.	Fibre.
	(minimum)	(minimum)	(maximum)
Bran	14	3	10
Shorts or Middlings	15	4	8
Chop	10	2	10

Although feeds of these classes are not required to be registered before being offered for sale, it is not forbidden that any manufacturer who believes his product to be notably better than the minimum legal requirements should register this and sell with a guarantee of quality. In such case the manufacturer must give some distinguishing name to the article, and not sell it simply as "Bran". He may name it "Smith's Bran", or "Jones' Bran", or he may devise a specific name for it. For purposes of the Act, the article then becomes a "Stock Feed" as defined by Sect. 2 (*b*) of the Act; and is amenable to the conditions of Sect. 2 (*e*) and Sect. 15. Thirty-eight samples of bran, shorts and chops among the 396 now reported are sold with a guarantee of value. It is, of course, proper that the manufacturer should be required to live up to any guaranteed value which he claims; and it may thus happen that a bran (for example) which would have passed as legal bran, if sold without any special claim of quality may be found deficient and technically adulterated because it fails to show the content of proteid matter or fat which the manufacturer claimed, and upon which, rather than upon the legal requirements for bran, it is judged.

The following table gives a concise statement of the results of analysis of bran, shorts and chop feeds.

	Sold with a guarantee.		Sold without a guarantee.		Total.		
	Meets guarantee.	Below guarantee.	Genuine.	Below requirements.	Genuine.	Adult.	Sum.
Bran	8	4	121	2	129	6	135
Shorts or Middlings	1	3	127	8	128	11	139
Chop	16	6	91	9	107	15	122
Totals	25	13	339	19	364	32	396

In some cases the deficiency is very small and may be regarded as accidental. Sometimes the deficiency in one component is fully compensated by overplus in another, so that the purchaser of the feed is not defrauded except technically. As a rule the deficiency is most notable in cases where a guarantee of value is given, the manufacturer evidently basing his guarantee upon a higher analytical result than he has found it practicable to live up to. The following tables show in detail the deficiencies referred to. It is to be noted that our standards, as interpreted by section 15 of the Feeding Stuffs Act, 1909, provide for a deficiency of one per cent in proteids or fat or for an excess of two per cent fibre, if the total value of the feed is not impaired thereby.

FEEDS SOLD WITH A GUARANTEE AND FAILING TO MEET THIS.

BRAN.

Number.	Guarantee.			Below guarantee.		
	Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
50481	16·82	5·50	10·86	1·86	0·82	
50188	16·82	5·50	10·86	1·73	0·88	
51616	16·82	5·50	10·86	2·18	1·30	
51471	16·82	5·50	10·86	1·90	1·38	

NOTE I.—The Western Canada Flour Mills Company, Goderich, writes as follows under date, April 2, 1913: We at one time did put out our bran under registration number and analysis, but later found that such was not necessary under the Act, and we therefore discontinued the practice.

All of the above samples meet legal requirements for bran; but they were sold under Registration No. 66, with the guarantee as given above.

SHORTS.

No.	Reg. No.	Guarantee.			Below Guarantee.		
		Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
*39158	68	16·73	4·39	5·20	4·79	0·31	7·12
51483	63	18·38	6·02	7·99	1·94	1·56	
51617	63	18·38	6·02	7·99	1·76	1·36	

* Inspector Rouleau is uncertain regarding register number, probably 68 is intended. This judgment must be regarded as doubtful.

No. 51483 meets the standard for shorts, but fails to meet the guarantee. The same is true of No. 51617. No. 39158 falls much below the standard for shorts.

CHOP.

No.	Reg. No.	Guarantee.			Below guarantee.		
		Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
50508	112	10·48	3·25	13·25	2·02	0·15	
50509	73	12·00	3·40	8·00	1 80		
39176	131	10·00	2 50	18·00	5·77	1·48	7·00
50954	50	11·00	2·50	16·00	2·78	0·88	
49260	138	18 00	5 00	10 00	2·56	0·60	1·1
49271		45·00	8·00		2·00		

FEEDS SOLD WITHOUT A GUARANTEE.

BRAN.

No.	Requirements.			Below Requirements.		
	Proteids.	Fat.	Fibre.	Proteid.	Fat.	Fibre.
50489	14	3	10	1·36		
48168	14	3	10	1·53		

SHORTS.

46896	15	4	8	1·22	0·18	
46325	15	4	8		1·48	0·8
37253	15	4	8	2·88	2·40	3·1
37257	15	4	8	2·44	0 81	0·1
49676	15	4	8	1·22	1·96	
38459	15	4	8	1·66		
38461	15	4	8	1·19		
49275	15	4	8	1·39		

CHOP.

46872	10	2	10	1·11		
37275	10	2	10	1·54	0·56	1·2
37280	10	2	10	2 45	0·38	5·1
39170	10	2	10	0·38		5·0
50952	10	2	10			2 6
49599	10	2	10	1·70		
48132	10	2	10	1·54		
49679	10	2	10	0 59		3·7
49681	10	2	10	0·45		8·2

SUMMARY OF THE FOREGOING, AS JUDGED UNDER THE TERMS OF THE ACT.

GUARANTEED FEEDS.

No.	
50481, 50488, 51616, 51471	Are adulterated if held to meet the guarantee. Are genuine if sold as legal bran.
39158	Adulterated.
5514, 5516	Meet the standard for legal Shorts, but are adulterated if judged by manufacturer's claim.
50508	Adulterated.
50509	Low proteids compensated by excess of fat.
39176, 50954	Adulterated

No.
49260 Meets legal requirements for chop, but is adulterated under terms of guarantee.
49271 Is a special feed. The deficiency of 2 p.c. protein would be large for an ordinary chop, being 20 p.c. of the total protein required by law. The percentage of deficiency of protein in this feed is only about 4½. It contains an excess of 0·44 fat above guarantee. It is doubtful if such a result would justify condemnation as adulterated.

FEEDS SOLD WITHOUT GUARANTEE

50489 Low proteids compensated by excess fat.
48168 " " "
46896 Adulterated.
46325 Low fat compensated by excess proteids.
37253 Adulterated.
37257 "
49676 Low fibre cannot be held to compensate for deficiency in both proteids and fat. Adulterated.
38459 Adulterated.
38464 " by a very narrow margin. Technical adulteration
49275 Adulterated.
46872 Excess of fat compensates for low proteids.
37275 Adulterated.
37280 "
39170 " by excess of fibre.
50952 The excess of fibre is fully compensated by excess of proteids and fat.
49599 Excess of fat practically compensates deficiency of proteids.
48132 Adulterated.
49679 " by excess of fibre.
49681 Compensating value in excess of fat

SUMMARY OF SAMPLES IN WHOSE CASES COMPENSATING VALUES DO NOT APPEAR; CONSEQUENTLY ARE ADULTERATED.

50481 If required to meet the guarantee.
50488 " "
51615 " "
51471 " "
39158 Adulterated.
51483 If required to meet the guarantee
51617 " "
50503 Adulterated.
39176 "
50951 "
49260 If required to meet the guarantee
46896 Adulterated.
37253 "
37257 "
49676 "
38459 "
38464 Doubtful.
49275 Adulterated.
37275 "
37280 "
39170 "
48132 "
49679 "

So far as nutriment value is concerned, it therefore appears that only 23 samples out of 396, or less than 6 per cent of the collection, can be regarded as adulterated under the Act. Of this number, one sample is doubtfully amenable to the charge of adulteration; and 7 others, while failing to meet the manufacturer's claims, are found to meet the legal minimum values for the class of feed to which they belong. This leaves only fifteen (15) samples in whose regard no extenuating circumstances can be pleaded.

Even among these it will be found that the deficiencies are for the most part slight, and the report shows that bran, shorts and chop feeds are so far as their feeding value goes generally of good quality. Modern milling processes are so complex, and the natural desire of the manufacturer to work economically and to secure a maximum value from his grain is so great that with the fullest intention to bring his low priced products up to the legally required minima, it is inevitable that he should at times utter a sample below standard, unless he takes the precaution of checking his output by analysis.

FEED FLOUR.

In Bulletin No. 231 (page 5) I called attention to a variety of feeding stuff sold as shorts or middlings, but having characters which would seem to indicate that it is rather a low-grade flour than shorts or middlings, as these are generally known. The following quotation from Bulletin No. 231 explains this matter:—

"A considerable number of samples, which appear to answer a description of low grade flour, were found in the above collection; but these were supplied indiscriminently as shorts or middlings, as indicated by the maxima for fibre and for fat, though most of them were sold as middlings.

"In order to discover whether the present collection indicates any accepted distinction between the terms, I have collated the results for 72 out of 73 samples sold as shorts, and for 54 out of 68 samples sold as middlings, being in each case the number of samples respectively, which meet the requirements of legal definition.

"Seventy-two (72) samples of shorts give results as follows:—

SHORTS.

	Fat.	Proteids.	Fibre.
Means	4·65	16·20	6·3
Maxima	6·48	18·46	8·0
Minima	3·44	14·00	3·9

"Fifty-four (54) samples of middlings give the following results:—

	Fat.	Proteids.	Fibre.
Means	4·47	15·95	5·2
Maxima	6·26	18·02	8·1
Minima	3·02	14·13	1·4

"The results appear to justify the conclusion that the article sold as shorts is not substantially different from the article sold as middlings; and this conclusion is corroborated by the expressed opinion of many millers, in answer to questions by our inspectors. At the same time it is to be noted that samples characterized by very low fibre, low fat and a high starch content (indicating flour), are usually sold as middlings, rather than as shorts.

"Examples of this are found in the following:—

Number.	Fat.	Proteids.	Fibre.	——
46084	2·16	10 37	1·5	low in proteids and fibre.
36956	1·55	12·73	0·7	" " fat and fibre.
43271	2·08	12·51	0·8	" " "
43281	2·32	13·26	1·3	" " "
47413	2·66	15·11	1·9	" fat and fibre.
47414	3·16	12·56	1·8	" proteids and fibre.
38185	2·66	11·42	0·9	" " fat and fibre.
38189	2·02	12·03	0·5	" " "
47611	2·37	14·61	1·1	" fat and fibre.
47618	1·98	13·04	0·8	" "
47621	2·28	12·86	1·0	" "

"Feeds of this kind should be sold as feed-flour; or by some name which distinguished them from legal shorts or middlings. While they possess considerable value for feeding purposes, they must be regarded as adulterated under the Act when offered as shorts or middlings. Their low fibre content is an advantage from the point of view of nutritive value, since this is replaced by starch in amount equivalent to the difference between the legal maximum for fibre (8 per cent) and the actual fibre present."

"I am convinced that in none of the above listed samples is there any evidence of intended fraud. The irregularity is apparently due to ignorance of legal requirements for shorts (middlings), and a mistaken idea that a low grade flour is even better value, than middlings as usually understood. I feel justified in recommending that for this first inspection under the Feeding Stuffs Act, leniency be exercised towards the vendors, and their attention called, to the requirements of the Act."

It is matter for consideration whether G. 968 should not be amended by addition of this description of feed under the name "FEED FLOUR"; in such case it would be necessary to amend the Act in Section 2 (b), by exclusion of the term "FEED FLOUR" as a commercial feeding stuff requiring registration.

The standard for bran, shorts and chop feeds, as defined in G. 932, were amended on June 7, 1911, by the following clause: 'And must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under the Seed Control Act.' (See G. 968).

Examination of all the samples herein reported as to their content in vital weed seeds has been made by the courtesy of the Department of Agriculture, through the office of the Seed Commissioner.

Samples were submitted to the Seed Commissioner on the twentieth of March, but this being the busiest season for that department of work, it was found impossible to report them until the 15th instant; which accounts for the considerable delay in issuing this Bulletin.

On that date, I received a very valuable and exhaustive report from the Seed Commissioner accompanied by the subjoined letter of explanation:—

DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SEED COMMISSIONER,
OTTAWA, May 15, 1913.

MR. A. MCGILL,
Chief Analyst,
Inland Revenue Department, Ottawa.

Dear Sir,— Herewith I am sending you six folios containing summary results of the analysis of the samples of brans, shorts, middlings and chop feeds submitted with your letter of March 20.

For your convenience, we have arranged these in consecutive order according to your laboratory test numbers. If and when you have occasion to refer to the analysis of any sample, I shall be obliged if you will kindly quote our laboratory test number.

We have not made germination test of any of the weed seeds enumerated to determine whether they are vital. We have, however, enumerated only those weed seeds which were found to be fully matured and in perfect condition; these we have assumed to be vital.

Nature has provided most kinds of noxious weed seeds with a hard or mucilagenous seed coat by which the germ may be protected, even though the seed may be exposed to the best possible conditions for germination; such weed seeds do not lend themselves readily to artificial methods for determining their percentage vitality.

From research work that has been done in our seed laboratory and elsewhere, however, we have good reason to believe that there are exceedingly few fully matured and uninjured seeds of plants that can properly be characterized as noxious weeds that are not capable of germinating. The fact that they cannot be forced to germinate until nature has prepared them for such is the principal factor that brings them within the category of noxious weeds and makes them so troublesome to farmers.

Yours very truly,
GEO. H. CLARK,
Seed Commissioner.

The result of this examination is presented in the following summary:—

	Samples.
Containing more than 400 vital weed seeds per lb.	6
" " " 300 " " "	3
" " " 200 " " "	4
" " " 100 " " "	11
" " " 50 " " "	14
" " " 25 " " "	27
" less " 25 " " "	71
Free from vital weed seeds	260
Total	396

The Seed Control Act (1-2 George 5, Chap. 23) of 1911, as interpreted under Order in Council under section 2, is as follows:—

The maximum proportion of noxious weeds that may be tolerated in any other seeds without affecting their character as being free from the seeds of the said weeds within the meaning of section 6 of this Act, shall be as follows:—

(a) For seed of oats, barley, wheat or other seeds similar in size, one weed seed in one pound avoirdupois.

(b) For seed of flax, millet or other seeds similar in size, one weed seed in one ounce avoirdupois.

(c) For seed of white clover and grasses, five weed seeds in one ounce avoirdupois.

It is to be kept in mind that these regulations apply to seeds intended to be applied directly to the land. In the case of cattle feeds, the vital weed seeds are presumably applied to the soil only after they have passed through the alimentary tract of the animals to which they are fed, and it is reasonable to suppose that their vitality will be greatly affected in the processes of digestion.

The only experimental data available to me directed to the determination of the vitality of seeds which have been fed to animals is contained in a report published as Bulletin No. 128 of the Maryland Agricultural Experiment Station, College Park, Md., in June, 1908.

This valuable study of the question is briefly presented in the following summary:—

SUMMARY.

The above results were obtained through experiments concerning the vitality of weed seeds under the influence of their distribution by manure along two different lines; namely, the effect of fermenting manure on the vitality of weed seeds (seeds introduced through bedding) and the effect upon the vitality of weed seeds after passing through the digestive channel of domestic animals (seeds fed to animals).

The first part of the experiment was accomplished so as to cover the condition where manure remains for six months in a barnyard, pound or pile. The second covered conditions where the manure remained on piles for a short while, as when shipped by carload lots from cities.

From the above results the following conclusions seem justified:—

1st. When manure is allowed to ferment in piles for 6 months no danger of distributing weed seeds is incurred.

2nd. When manure is allowed to remain in piles and undergoing partial fermentation, little danger of distribution is incurred.

The second part of the experiment which dealt with the effect upon the vitality of weed seeds after passing through the digestive channels of domestic animals was accomplished so as to bring about three existing conditions.

1st. Manure hauled direct from the stable to the field as a top dressing and left there exposed to the washing of the rains.

2nd. Where the manure is hauled directly from the stable to the field where it is immediately ploughed under.

3rd. Where the domestic animals are allowed to run in pasture and the droppings are allowed to remain wherever they chance to fall.

From the above tables in the latter part, the following results were obtained:—

1st. Where the manure was hauled directly from the stable as a top dressing an average of only 12·8 per cent of the seeds fed to animals germinated.

2nd. Where the manure was hauled directly from the stable upon the land and ploughed under, 2·3 per cent of the seeds fed to animals came up.

3rd. Where the droppings remained on the pasture fields unadulterated as they fell, an average of only 3·1 per cent of the seeds fed to animals germinated.

I have the following expression of opinion from Geo. H. Clark, Esq., Seed Commissioner of the Department of Agriculture, Canada.—

"There has been quite a large number of samples of mill feeds analysed in our seed laboratory covering the period of six years, and from the results of this work we have formed the opinion that the propoprtion of whole weed seeds contained in the feeding stuff depends largely on the care or lack of care on the part of the manufacturer.

Weed seeds in seed grain are probably five times more dangerous to agrieulture than are weed seeds in mill feeds, for the reason that only a small per cent of the weed seeds fed to stock ultimately are put on the land in a viable condition.

For the present, I think I cannot do more than to express the opinion that if you were to tolerate five noxious weed seeds per pound of bran, shorts or chop feed before you consider their character affected as being free from the seeds of the said weeds within the meaning of your regulations, then field agriculture would be as well safeguarded as it now is under the regulations that are applied for a similar purpose under the Seed Control Act.

This last suggestion would place the limit at 5 vital seeds of noxious weeds per pound; and it is proper, in its regard, to further analyse the case of 71 samples of this collection which contained less than 25 weed seeds per pound:—

	Samples.
20 or more weed seeds per pound	8
15 " "	11
10 " "	14
5 " "	18
Less than 5 "	20
Total	71

It may be found necessary to place the limit for vital weed seeds in bran, shorts and chop feeds as low as suggested by the Seed Commissioner. There can be no doubt, however, that when the number exceeds 25 seeds per pound, a reasonable limit is passed, and such samples must be regarded as adulterated, on this ground and altogether apart from considerations of nutritive value.

Many of these contain notable amounts of protein and fat, and if properly ground so as to destroy their vitality they might not be objectionable in a feed except in such species as contain acrid or poisonous principles.

Complaints have frequently reached this office to the effect that animals refused to eat certain feeds, or that ill effects have been noted after feeding.

The subjoined table gives details of 65 samples of feeds which contain more than 25 vital seeds per pound.

No. of Sample.	Seeds per lb.	Class.	Manufacturer.	Address.	Feeding Value.
46873	112	Chop	Canada Cereal Co.	Toronto	O.K.
46874	80	"	Gunn & Co	Halifax	"
46875	43	"	"	"	"
46877	128	"	Ogilvie Mill. Co	Montreal	"
46880	432	"	Halifax "	Halifax	"
46882	25	Bran	Ogilvie "	Montreal	"
46894	32	Shorts	Unknown		
46307	32	Bran	Ogilvie Mill. Co	Montreal	"
46314	96	"	" "	"	"
46330	176	Chop	Can. Cereal Co	Toronto	"
46331	32	"	Ogilvie Mill. Co	Montreal	"
50493	512	Shorts	Dom. Flour Mills	"	"
50499	336	Middlings	Milling Co	Woolverton	"
50503	32	Chop	Maynes & Riley	St. John, N.B	"
50504	43	"	Ogilvie Mill. Co	Montreal	"
50506	80	"	" "	"	"
50507	224	"	" "	"	"
50508	32	"	Cereal Mill. Co	Tillsonburg	Adulterated.
50509	320	"	Western F. M. Co		O.K.
37278	100	"	Ogilvie Mill. Co	Montreal	"
39151	32	Bran	Western F. M. Co		"
39154	26	"	Robin Hood Mills.		"
39163	32	Shorts	St. Lawrence Mill. Co.	Montreal	"
39171	144	Chop	Cousens & Co.	St. Jean	"
50942	48	Shorts	West. Can. F. M Co.		"
50293	48	Chop	Sylvester & Son	Vankleek Hill	"
50294	48	Bran	Campbell Co.	Peterboro'	"
50298	352	Shorts	Quakers Oats Co.	"	"
51618	64	Chop	West. Can. F. M. Co.		"
49590	52	"	Geo. Gibson	Kingston	"
49591	64	"	W. J. Peters		"
49593	43	"	W. M. F. Co.		"
49595	32	"	Anderson Bros.	Kingston	"
49506	112	"			"
49597	48	"	E. F. M. Brown	Washburn	"
51471	32	Bran	West. Can. F. M. Co.		Doubtful.
51476	176	"	Dom. F. M. Co.	Hamilton	O.K.
51479	640	"	Wood Mill. Co	"	"
51480	32	"	Seaforth Mill. Co.	Seaforth	"
51488	128	Shorts	Dom. F. M. Co	Hamilton	"
51489	64	"	Ogilvie Mill. Co	Montreal	"
51490	64	"	Unknown		"
51491	96	Chop	Campbell F. M. Co	Toronto	"
51495	208	"	W. J. Baldwin	Aurora	"
51497	288	"	Dom. F. M. Co	Hamilton	"
48127	96	Bran	King Mill. Co	Sarnia	"
48132	48	Chop	A. J. Sutherland	London	Adulterated.
48134	96	Bran	Docter & Son	"	O.K.
48165	32	Chop	R. M. Pincombe	Strathroy	"
48751	32	Bran	Lake of Woods Co	Portage la Prairie	"
49772	544	Chop	West. Can. F. M. Co	Brandon	"
48776	1,104	"	Ogilvie's	Winnipeg	"
48778	48	"	W. Can. F. M. Co	St. Boniface	"
49680	64	"	Brackman Ker Co	Strathcona	"
49682	48	Bran	Ellison Mill. Co	Lethbridge	"
38451	128	"	Vanc. Mill. Co	Vancouver	"
38454	32	"	Robin Hood Co.	Moosejaw	"
38469	48	Chop	F. T. Vernon	Vancouver	"
38470	112	"	Brackman Ker Co	New Westminster.	"
38471	64	"	McLellan & McCaster	Vancouver	"
38473	80	"	Brown & Hovey	"	"
38475	432	"	A. E. Burnett & Co.	"	"
49265	32	Shorts	Lake of Woods Co	Portage la Prairie.	"
49272	112	Bran	Robin Hood Co.	Calgary	"
49280	256	"	Ogilvie Mills	Winnipeg	"

From the above table it is seen that 62, perhaps 63, out of the 65 samples recorded as containing more than 25 vital weed seeds per pound are of satisfactory value as regards the nutritive values of the feeds. This does not prevent them from being judged as adulterated, provided that the limit number of 25 vital weed seeds per pound be held justifiable. From a study of all the work bearing upon this subject to which I have access, I am convinced that the limit suggested is quite liberal.

Thirty-seven samples are sold as chop, 18 samples as bran and 10 samples as shorts or middlings. It is to be expected that if unground weed seeds are to be found in cattle feeds they should appear in chop or in bran. They should not apparently be found in shorts or middlings because this product is supposed to represent only the result of such fine grinding as should ensure the destruction of the seeds by comminution. It would seem that whole weed seeds could only appear in shorts or middling by purposeful addition of waste or 'screenings.'

It is evident from this study that purchasers of stock feeds have little ground for complaint as regards the feeding value of these goods.

On the other hand, they contain very notable amounts of vital weed seeds, and, in the light of present knowledge are in my opinion adulterated when such contamination exceeds 25 seeds per pound.

The practice of adding 'screenings' or 'offal' to bran, shorts and chop is very objectionable, and unless the 'screenings' have been ground so fine as to destroy the vitality of the weed seeds contained must be held to be a violation not only of the Adulteration Act, but, in spirit at least, a violation of the Seed Control Act.

I beg to recommend publication of this report as Bulletin No. 254.

I have the honour to be, Sir,

Your Obedient Servant,

A. McGILL,
Chief Analyst.

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
DISTRICT OF NOVA SCOTIA—								
1912.								
Sept. 11	Chop Feed.	46871	Wentzells Ltd., Halifax, N.S.	3 lbs.	Nil.	Quaker Oats Co. Peterboro, Ont	,Mfrs	Registration No. 113.
" 23	"	46872	Quaker Oats Co., Agency, Halifax, N.S.	3 "	"	" "	"	
" 24	"	46873	S. P. Goudy, Yarmouth, N.S.	3 "	"	Canada Cereal Co., Toronto.	E. Allen, Yarmouth, N.S.	
Oct. 2	"	46874	Gunn & Co., Halifax, N.S.	3 "	"	Vendors		Pig Feed.
" 2	"	46875	" "	3 "	"	"		"O & B" Chop
" 3	"	46876	C. B. McMullen, Truro, N.S.	3 "	"	"		"Special" Br'd
" 3	"	46877	R. McG. Archibald, Truro, N.S.	3 "	"	Ogilvie M. Co. Montrea	Mfrs	"Hercules Brand.
" 3	"	46878	Colchester Co. F. Co-op. Asso., Truro, N.S.	3 "	"	Quaker Oats Co., Peterboro.	"	"Banner" Feed Marked registered but number not given on bag.
" 5	"	46879	H. C. Barnaby & Sons, Bridgewater, N.S.	3 "	"	" "	"	"Schumacher" No. 13.
" 8	"	46880	F. A. Shaw, Halifax, N.S.	3	"	Halifax M. M. Co., Halifax, N.S.	"	Crushed oats.
Sept. 11	Bran	46881	Wentzells Ltd., Halifax, N.S.	3 "	"	Lake of the Woods M. Co., Toronto.	"	
" 19	"	46882	J. D. Stewart, Halifax, N.S.	3 "	6	Ogilvie M. Co., Montreal.	"	
" 20	"	46883	I. B. Shaffner & Co., Halifax, N.S.	3 "	Nil.	Western F. M., Toronto.	"	No. 66
" 20	"	46884	Estate of H. W. Brown, Halifax, N.S.	3 "	"	Canada F. Mills, Chatham, Ont.	I. B. Shaffner Co., Halifax, N.S.	
" 24	"	46885	S. P. Goudy, Yarmouth, N.S.	3 "	"	Maple Leaf Mills, Toronto	Cochrane & Burns, Boston, Mass.	
" 25	"	46886	Shand Bros, Windsor, N.S.	3 "	"	Quaker Oats Co., Peterboro.	Mfrs	
" 26	"	46887	F. W. Fraser, Halifax, N.S.	3 "	"	Peterboro Cereal Co., Peterboro	"	
" 26	"	46888	F. A. Shaw, Halifax, N.S.	3 "	"	Maple Leaf Mills Co., Toronto.	I. B. Shaffner Co., Halifax, N.S.	
" 27	"	46889	Gunn & Co., Halifax, N.S.	3 "	"	Shark & Snider, Bridgeport, Ont.	Mfrs	
" 27	"	46890	G. A. Redmund Co., Dartmouth, N.S.	3 "	"	Maple Leaf Mills Co., Toronto.	"	

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.			
Proteids.	Fat	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
R. J. WATCH, INSPECTOR.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
10·33	3·29	10·5	11·48	3·66	3·4	..	.	46871	Meets guarantee.
	..		8·89	3·06	7·3	..		46872	Practically up to standard by compensating fat.
	. . .		10·60	4·36	4·6	112	Wild oats. False Flax. Canada Thistle. Wild Mustard.	46873	Genuine as to food value.
	.		9·83	3·12	3·2	80	Wild Oats. Ball Mustard.	46874	" " ..
.	.....	. . .	10·15	4·28	5·2	43	Wild Oats. Wild Mustard.	46875	..
	...	..	9·55	4·64	7·8	11	Wild Oats .	46876	" " .
.	.	.	10·36	4·26	4·3	128	Wild Oats. Ball Mustard. Wild Mustard.	46877	" " .
8·50	3·50	9·00	8·82	3·38	6·3			46878	Meets guarantee.
10·50	4·00	10·50	9·94	2·30	9·2			46879	"
	.	.	11·97	3·84	11·7	432	Wild Mustard. Canada Thistle. False Flax Stink Weed.	46880	Genuine as to food value high in weed seeds.
			15·09	4·62	9·2			46881	Genuine.
.		.. ..	14·13	4·62	9·0	25	Wild Oats .	46882	" as to food value.
16·82	5·50	10·86	15·62	5·02	8·1	3	Wild Oats	46883	Meets guarantee.
.		.	14·61	4·32	8·9		. .	46884	Genuine.
			15·35	4·68	7·0			46885	"
		...	16·63	4·88	6·4		. ..	46886	.
.		. .	14·78	4·48	9·4	..		46887	.
	..	. .	14·48	4·38	8·1	....	. .	46888	"
			15·22	4·42	8·9	10	Wild Oats. Rag Weed	46889	"
.	.		14·44	4·16	8·4	....	....	46890	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NOVA SCOTIA—								
1912.								
Sept. 11	Shorts....	46891	Wentzells Ltd, Halifax, N.S.	3 lbs.	Nil.	W. F. Taylor Co., Chatham, Ont.	.....	.....
" 19	"	46892	J. D. Stewart, Halifax, N.S.	3 "	6	Ogilvie M. Co., Montreal.	Nelson & Hart, Halifax, N.S.	.....
20	"	46893	I. B. Shaffner & Co., Halifax, N.S.	3 "	Nil.	" " .	Mfrs.	.....
" 20	"	46894	Estate of H. W. Brown, Halifax, N.S.	3 "	"	Unknown	J. B. Shaffner Co., Halifax, N.S.	.....
" 24	" ...	46895	S. P. Goudy, Yarmouth, N.S.	3 "	" .	Ogilvie M. Co., Montreal.	Mfrs.	.....
" 25	"	46896	Shand Bros., Windsor, N.S.	3 "	" .	Quaker Oats Co., Peterboro.	"	.....
" 26	"	46897	F. W. Fraser, Halifax, N.S.	3 "	" .	Campbell F. Mills, Toronto	"	.....
" 26	"	46898	F. A. Shaw, Halifax, N.S.	3 "	" .	Unknown	J. B. Shaffner Co., Halifax, N.S.	.....
" 27	"	46899	Gunn & Co., Halifax, N.S.	3 "	" .	T. H. Taylor Co. Chatham, Ont.	Mfrs.	.....
" 27	"	46900	G. A. Redmond & Co., Ltd., Dartmouth, N.S.	3 "	" .	Dom. F. Mills, Co., Brantford, Ont.	"	.....
DISTRICT OF PRINCE EDWARD ISLAND—								
Sept. 6	Bran.....	46307	A. Horne & Co., Ch. Town, P.E.I	3 lbs.	6	Ogilvie's Montreal.	.....	.....
" 13	"	46308	Auld Bros., Ch. Town, P.E.I.	3 "	6	Dom. F. Mills, Montreal.	.....	.....
" 17	"	46309	Geo. Forbes, Vernon River Bridge P.E.I.	3 "	6	Canada F. Mills, Chatham, Ont.	.....	.....
" 23	"	46310	F. L. McNutt, Ch. Town, P.E.I.	3 "	6	.....	G. H. Toombs, Ch. Town, P.E.I.	.....
" 23	"	46311	The P.E.I. Hay & Produce Co., Ltd. Ch. Town, P.E.I.	3 "	6	The Woodburn M. Co. Glencoe, Ont.	.....	.....
" 23	"	46312	R. E. Mutch & Co., Ch. Town P.E.I.	3 "	6	E. A. Barry, Montreal.	.....	.....
" 27	"	46313	Carvell Bros, Ch. Town, P.E.I.	3 "	6	Ogilvie's, Montreal.	.....	.....
Oct. 1	"	46314	Brace McKay & Co. Summerside. P.E.I.			" .	.....	.....
" 3	"	46315	J. J. Hughes, Souris, P.E.I.	3 "	6	Taylor's, Chatham, Ont.	.....	.....
" 3	"	46316	A. Currie, Souris, P.E.I	3 "	8	Campbell M. Co., Toronto Jct., Ont.	.....	.....

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.			
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
		.....	15·13	4·74	7·3		...	46891	Genuine
		.. ...	15·57	4·62	6·4	10	Campions. Wild Oats	46892	"
		.....	15·92	4·56	5·9			46893	"
		...	15·80	4·78	5·8	32	Wild Mustard. Hare's Ear Mustard.	46894	Genuine as to food value.
		.....	16·23	4·00	5·0			46895	" "
		.....	13·78	3·82	6·5			46896	Low in proteids. Adulterated.
		..	15·80	5·12	7·7			46897	Genuine.
		...	16·23	4·72	5·8	4	Ball Mustard ..	46898	"
			15·18	4·38	4·7			46899	"
			15·88	4·34	4·5			46900	"
WM. A. WEEKS, INSPECTOR.									
.....	.....	....	14·35	4·34	9·9	32	False Flax. Stinkweed.	46307	Genuine as to food value.
.....	.....	.....	13·96	4·56	9·4	.....	....	46308	Genuine.
			14·17	3·62	9·1			46309	
		..	15·09	3·52	9·9		...	46310	"
		.....	14·96	4·78	8·9		..	46311	"
			14·57	5·12	9·8		...	46312	"
			15·05	4·78	9·0			46313	"
			14·13	4·24	9·3	96	Wild Oats. Wild mustard.	46314	Genuine as to food value.
		.. ...	13·30	4·24	9·1			46315	Genuine.
		...	14·92	4·42	8·7			46316	"

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	Nature of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
DISTRICT OF PRINCE EDWARD ISLAND—								
1912.								
Sept. 13	Shorts	46317	A. Horne & Co., Ch. Town, P.E.I.	3 lbs.	6	Taylor, Chatham Ont.		
" 13	"	46318	Auld Bros., Ch. Town, P.E.I.	3 "	6	Dom. F. Mills, Montreal.		
" 17	"	46319	Geo. Forbes, Vernon River Bridge P.E.I.	3 "	6	Canada F. Mills, Chatham, Ont.		
" 23	"	46320	F. L. McNutt, Ch. Town, P.E.I.	3 "	6		G. H. Toombs, Ch. Town, P.E.I.	
" 23	"	46321	The P. E. I. Hay & Produce Co., Ch. Town, P.E.I	3 "	6		Auld Bros., Ch Town, P.E.I	
" 27	"	46322	Carvell Bros., Ch. Town, P.E.I.	3 "	6	Shirk & Snider, Bridgeport, Conn.		
Oct. 1	"	46323	Sinclair & Stewart, Summerside, P.E.I.	3 "	6	The J.W. Campbell Co., St. Thomas, Ont.		
" 1	"	46324	"	3 "	6	Ogilvie M. Co., Montreal.		
" 3	"	46325	J. J. Hughes, Souris, P.E.I.	"	6	Taylor's, Chatham, Ont.		
" 3	"	46326	Mathew & McLean, Souris, P.E.I.	3 "	6	Empire M. Co., St. Thomas, Ont.		
Sept. 17	Chop Feed	46327	George Forbes, Vernon River Bridge, P.E.I.	3 "	8	Canada F. Mills, Chatham, Ont.		
" 23	"	46328	F. L. McNutt, Ch. Town, P.E.I.	3 "	9		J. A. Farquharson & Co. Ch. Town, P.E.I.	
" 23	"	46329	The P.E.I. Hay & Produce Co., Ch. Town, P.E.I	3 "	6	P.E.I. Farmer.	Unknown	
" 25	"	46330	Auld Bros., Ch. Town, P.E.I.	3 "	6	Canada Cereal Co., Toronto.		
Oct. 1	"	46331	Sinclair & Stewart, Summerside, P.E.I.	3 "	6	Ogilvie M. Co., Montreal.		
" 3	"	46332	Mathew & McLean, Souris, P.E.I.	3 "	8	Johnson & McDonald, New Glasgow, N.S.		
" 3	"	46333	Sterns Bros., Souris, P.E.I.	3 "	8	Atlantic M. Co., Pictou, N.S.		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.			
Proteids	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			16·97	1·58	4·3			46317	Genuine
			15·22	1·22	4·5			46318	"
			16·19	1·92	7·2			46319	"
			16·80	3·92	1·4			46320	"
			16·58	1·22	4·1			46321	
			16·44	1·41	3·4			46322	
			16·27	1·66	5·8			46323	
			16·06	1·76	3·4			46324	
			16·63	2·52	8·8	16	Campions	46325	Low in fat—Compensated by excess proteids
			15·44	1·26	3·9			46326	Genuine.
			9·20	3·24	1·6			46327	"
			8·95	2·80	1·4			46328	"
			12·04	1·48	8·9			46329	"
			10·50	3·38	2·6	176	Wild oats, wild mustard, Hare's Ear mustard.	46330	" as to food value.
			11·09	6·54	4·0	32	Great Ragweed, Wild Oats.	46331	" "
			9·71	3·60	1·7	1	Wild oats.	46332	" "
			9·04	4·04	1·7			46333	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression opinion.)
						DISTRICT OF NEW BRUNSWICK—		
1912.								
Sept. 14	Bran	50480	C. H. Peters Sons Ltd., St. John, N.B.	3 lbs.	10	Quaker Oats Co., Peterboro, Ont		"Bell Cow" Brand.
" 16	"	50481	James Collins, St. John, N.B.	3 "	10	Western F. M. Co., Ltd., Canada.		Protein 18·82% Fat 5·5%— Fibre 10·88%
" 17	"	50482	P. Nase & Son, St. John, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.
" 17	"	50483	L. C. Prime & Co., Ltd., St. John, N.B.	3 "	10	The Jas. Goldie Co. Ltd., Guelph Ont.		
" 25	"	50484	St. Martin's Trading Co., Ltd., St. Martin's, N.B	3 "	10	Sask. M. Co., Ltd., Moosejaw, Sask.		"Robin Hood" Crude Protein 16·25%. Fat 5·2% Crude Fibre 9·8%.
" 25	"	50485	J. & J. S. Titus, St. Martin's, N.B	3 "	10	Dom. F.M., Ltd., Montreal.		Labelled Pure Bran Feed.
Oct. 4	"	50486	Strong & Nodden, Woodstock, N.B	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.
" 5	"	50487	B. Beveridge, Andover, N.B.	3 "	10	Canada C. & M. Co., Tillsonbury, Ont.		
" 17	"	50488	D. & J. Ritchie, Newcastle, N.B.	3 "	10			Registration No. 66. Protein 16·82% Fat 5·5% Fibre 10·88%
" 18	"	50489	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	10	The Tavistock M. Co., Ltd., Tavistock, Ont		
Sept. 14	Shorts	50490	C. H. Peters Sons, Ltd., St. John, N.B.	3 "	10	Maple Leaf M. Co., Toronto, Ont.		"Maple Leaf" Brand.
" 16	"	50491	Jas. Collins, St. John, N.B.	3 "	10	Quaker Oats Co., Peterboro, Ont		"Bell Cow" Brand.
" 17	"	50492	P. Nase & Son, St. John, N.B.	3 "	10		W. F. Barnhill, Fairville, N.B.	National Brand
" 17	"	50493	L. C. Prime & Co., Ltd., St. John, N.B.	3 "	10	Dom. F. Mills, Ltd., Montreal		
Oct. 3	"	50494	M. E. Doohan, Fredericton, N.B.	3 "	10	The Campbell M. Co., West Toronto, Ont.		"Bull Rush" Brand.
" 3	"	50495	G. T. Whelpley, Estate, Fredericton, N.B.	3 "	10	Lake of the Woods M. Co., Montreal.		
" 4	"	50496	Strong & Modden, Woodstock, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Dirvet.	Fibre.	No. per lb.	Chiefly.		
J. C. FERGUSON, INSPECTOR.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			11·65	4·40	8·3			50480	Genuine.
16·82	5·50	10·86	14·96	4·68	8·2			50481	Below guarantee in proteids. See Note 1 p.
			15·27	4·52	6·4			50482	Genuine.
			14·39	4·34	8·5			50483	"
16·25	5·20	9·80	17·28	4·11	8·4	5	Hare's Ear mustard.	50484	Meets guarantee.
			13·96	4·60	9·5			50485	Genuine.
			15·18	4·20	7·4			50486	"
			14·13	4·68	8·7			50847	"
16·82	5·50	10·86	15·09	4·62	8·8	17	Stickseed. Wild oats. Stinkweed.	50488	Below guarantee in proteids, but doubtful identification of the brand. Meets requirements for legal bran. See note 1.
			12·64	4·34	10·0			50489	Low in proteids, but excess of 1·34 p.c. fat compensates.
			16·06	4·22	5·9			50490	Genuine.
			16·41	4·16	6·5			50491	"
			15·92	5·00	4·4	11	Wild Mustard. Hare's Ear Mustard.	50492	"
			14·70	4·02	3·2	512	Tumbling Mustard	50493	" as to food value high in weed seeds.
			16·49	4·50	5·7	24	Stink Weed. Wild Mustard. Hare's Ear Mustard.	50494	" "
			16·76	4·46	4·6			50495	Genuine.
			15·92	4·20	5·1			50496	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.
						DISTRICT OF NEW BRUNSWICK—		
1912.								
Oct. 5	Shorts	50497	B. Beveridge, Andover, N.B.	3 lbs.	10	Canada C. & M. Co., Tillsonburg, Ont.		
" 17	Middlings.	50498	D. & J. Ritchie, Newcastle, N.B.	3 "	10	Dom. F. Mills, Ltd.		
" 18	"	50499	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	10	The Wolverton M. Co., Ltd., Wolverton, O.		
Sept. 14	Chop Feed.	50500	C. H. Peters Sons, Ltd., St. John, N.B.	3 "	10	Maynes & Riley Mills City Road, St. John, N.B.		Cracked Corn & Oats.
" 16	"	50501	James Collins. St. John, N.B.	3 "	10	Quaker Oats Co., Peterboro, Ont		"Banner" Brand.
" 17	"	50502	P. Nase & Son. St. John, N.B.	3 "	10	Steen Bros., St. John, N.B.		
" 19	"	50503	Maynes & Riley, Ltd., St. John, N.B.	3 "	10	Vendors		
Oct. 3	"	50504	John Gibson & Son, Fredericton, N.B.	3 "	10	Ogilvie F. M. Co., Montreal.		Puritan Brand
" 4	"	50505	J. M. Fripp, Meduxnakeg F. Mills, Woodstock, N.B.	3 "	10	Vendor		Product of Native Buckwheat, whole contents of grain, except outer hull.
" 7	"	50506	J. W. McPhail, Perth, N.B.	3 "	10	Ogilvie M. Co., Ltd., Montreal		"Puritan" Brand.
" 15	"	50507	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	10	" "		"Hercules" Brand.
" 16	"	50508	Toombs & Son, Moncton, N.B.	3 "	10	Canada C. & M Co., Ltd., Tillsonburg, Ont.		"Edinboro" Chop.
" 16	"	50509	Reed & Co., Ltd., Moncton, N.B.	3 "	10	Western F. M. Co., Ltd.		"Jockey" Feed, Reg. No. 73. Protein 12·0 Fat 3·4 p.c. Crude Fibre 8·0 p.c..
						DISTRICT OF QUEBEC—		
Sept. 5	Bran	37252	N. Cantin, 133 Rue du Pont, Quebec	3 lbs.	10	Unknown	P. T. Busiere & Cie.	
" 5	Shorts	37253	" "	3 "	10	"	"	
" 16	"	37254	Hamel & Bedard, 728 Rue St. Valier, Quebec.	3 "	6	"	"	
" 16	Bran.	37255	" "	3 "	6	"	"	

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
J. A. FERGUSON, INSPECTOR *Concluded.*									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			16·80	1·90	5·7			50497	Genuine
			17·50	4·82	5·1			50498	"
			14·78	4·24	4·9	336	False Flax	50499	" as to food value very high in weed seeds
			9·71	3·82	2·8	5	Wild Oats, Ball Mustard.	50500	Genuine.
8·50	3·50	9·00	8·76	2·48	7·3	3	Stickseed.	50501	Meets guarantee.
			9·19	3·52	3·9			50502	Genuine.
			9·80	3·74	3·8	32	Wild Oats	50503	" as to food value
9·50	4·00	6·50	9·27	3·14	8·1	43	Wild Oats	50504	Meets guarantee as to food value.
			10·30	2·38	1·6			50505	Genuine.
9·50	4·00	6·50	9·54	4·74	7·9	80	Wild Oats	50506	Meets guarantee as to food value.
			9·89	4·04	4·5	224	Docks, False Flax, Wild Oats, Ball Mustard, Hare's Ear Mustard.	50507	Genuine as to food value.
10·48	3·25	13·25	8·46	3·10	12·8	32	Wild Oats	50508	Low in proteids, as guaranteed adulterated.
12·00	3·40	8·00	10·20	4·82	6·7	320	Campions, False Flax, Stink Weed, Hare's Ear Mustard.	50509	Below guarantee in proteids compensating fat excess 1·42 p.c. very high in weed seeds.
F. X. W. E. BELAND, INSPECTOR.									
			14·39	4·42	7·9			37252	Genuine.
			12·12	1·60	11·1	2	Wild Oats	37253	Low in proteids and fat Adulterated.
			14·44	4·50	7·3	9	Wild Mustard	37254	Genuine.
			16·40	3·76	3·2			37255	"

Date of Collection.	Nature of Sample.	Nature of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.
								DISTRICT OF QUEBEC—
1912.								
Sept. 17	Bran	37256	J. Rochette, 7 Rue D. Eligny, Quebec.	3 lbs.	10	Unknown	J. B. Reneaud & Cie.	
" 16	Shorts	37257	" "	3 "	12	"	"	
" 18	Bran	37258	M. Boyce & Son, 1921 Cote D'Abraham, Quebec.	3 "	9	"	P. J. Busiere, Quebec.	
" 19	"	37259	Jos. Boiteau, 27 Rue Sutherland, Quebec.	3 "	10	"	J. B. Reneaud	
" 20	"	37260	G. Tanguay, Rue St. Paul, Quebec	3 "	Nil	St. Lawrence M. Flour Mills, Quebec.	Mfrs.	
" 20	Shorts	37261	" "	3 "	"	Maple Leaf M. Co.	St. Lawrence Flour Mills,	
" 20	Bran	37262	W. Carrier et fils, 108 Rue Dalhousie, Quebec.	3 "	"	Ogilvie's, Montreal.	Mfrs.	
" 20	Shorts	37263	" "	3 "	"	" "	"	
" 20	Bran	37264	P. G. Busiere, Rue Dalhousie, Quebec.	3 "	"	" "	"	
" 20	Shorts	37265	" "	3 "	"	Maple Leaf M. Co.	"	
" 20	Chop Feed	37266	" "	3 "	"	Vendor		
" 20	Bran	37267	D. E. Drolet, Rue Dalhousie, Quebec.	3 "	"	Lac Des Bois.	Mfrs.	
" 20	Shorts	37268	" "	3 "	"	Ogilvie's, Montreal.	"	
" 23	Bran	37269	J. E. Hall, 84 Rue Richardson, Quebec.	3 "	"	St. Lawrence Co.	"	
" 23	Shorts	37270	J. E. Drolet, 143 Rue du Pont, Quebec.	3 "	"	Maple Leaf M. Co.	Kirouack et fils.	
" 23	"	37271	Vezina & Filion, Rue du Pont, St. Roch Nord, Quebec.	3 "	"	Dom. Flour Mills.	Mfrs.	
" 23	Chop Feed	37272	" "	3 "	"	Vendors		
" 23	Shorts	37273	Begin & frere, 67 67 Rue St. Roch, Quebec.	3 "	"	Maple Leaf Flour M. Co.	Mfrs.	
Oct. 8	Moule Avoine.	37274	J. B. Reneaud & Cie, Quebec.	"	"	F. Goulet, Beauport.	"	
" 8	Moule Kamoat.	37275	"	3 "	"	Lake of the Woods M. Co., Montreal.	"	
" 8	Moule Shorts.	37276	"	3 "	"	Maple Leaf Co.	"	

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.				
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Continued.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			14·22	1·01	10·7	21	False Flax, Hare's Ear Mustard.	37256	Genuine.
			12·56	3·19	8·1			37257	Low in proteids. Adulterated.
			14·74	4·44	8·5	11	Campions, Stinkweed.	37258	Genuine.
			14·83	4·70	9·0	10	Wild Oats	37259	"
			14·74	5·14	9·0		Campions	37260	"
			15·75	4·28	5·6			37261	"
			14·44	4·40	9·5			37262	"
			16·84	4·24	5·4			37263	"
			16·49	4·72	6·2	6	Hare's Ear Mustard	37264	"
			16·14	4·90	6·0	6	Campions	37265	"
			15·31	4·58	8·5	5	Great Ragweed	37266	"
			15·71	4·50	9·6			37267	"
			16·80	5·46	3·1			37268	"
			14·57	4·76	9·7			37269	"
			15·88	4·04	5·4			37270	"
			14·70	3·56	4·7			37271	"
			10·29	4·88	9·2			37272	"
			16·19	4·02	4·7			37273	"
			9·88	4·66	11·2			37274	"
			8·46	1·44	11·2			37275	Low in proteids. Adulterated.
			16·97	5·28	6·2			37276	Genuine.

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.
DISTRICT OF QUEBEC—								
1912.								
Oct. 8	Moulé Middlings.	37277	J. B. Renaud & Cie., Quebec.	3 lbs.	Nil.	Ontario Flour Mills.	Manufacturers	.. ..
" 8	Eureka Feed.	37278	"	3 " ..	" .	Ogilvie F. Mills, Montreal.	"	.. ..
" 8	Barley Feed.	37279	"	3 " ..	" .	" "	"	.....
" 9	Moulé Avoine.	37280	N. Bertrand, 685 Rue St. Valier, Quebec	3 " ..	" .	Vendor	.....	.....
" 9	Moule Mele.	37281	" "	3 " ..	" .	Unknown	Julien et Cie, Quebec.	....
DISTRICT OF ST. HYACINTHE—								
Sept. 16	Bran	39145	E. Dionne, St Bonaventure.	3 lbs.	Nil.	Ogilvie M. Co., Montreal.	.....	.....
" 17	"	39146	D. Parent, Yamaska West.	3 " ..	" .	St. Lawrence M. Co., Montreal.	.....	.....
" 18	"	39147	C. Roberge, Sorel.	3 " ..	" .	Lake of the Woods M. Co., Montreal.	....	.. ..
" 19	"	39148	H. De la Barre, Lack St. Ours,	3 " ..	" .	Vendor	.....	....
" 24	"	39149	Chas. R. Cousins & Co., St. Jean.	3 " ..	" .	Dom. F. Mills, Ltd., Brantford.	....	..... .
" 25	"	39150	Ed. Brosseau, Henryville.	3 " ..	" .	St. Lawrence M. Co., Montreal.	....	....
Oct. 1	"	39151	Fuller & Wright, Sherbrooke.	3 " ..	" .	Western Canada Flour Mills Co.	.....	....
" 4	"	39152	G. B. Reed, North Hatley.	3 " ..	" .	The Quaker Oats Co., Peterboro	....	....
" 8	"	39153	J. Dupaul, Valcourt Ely.	3 " ..	" .	St. Lawrence M. Co., Montreal.	....	.....
" 8	"	39154	E. Rogers, Eastman.	3 " ..	" .	Robin Hood Mills, Ltd.	.....	Protein 16·26 %; Fat 5·2%; Fibre 9·8%.
Sept. 16	Shorts	39156	N. Simard, St. Germain de Granthan.	3 " ..	" .	Maple Leaf M. Co.	Lake of the Woods M. Co., Montreal.	....
" 17	"	39157	G. D. Tremblay, Pierreville Mills.	3 " ..	" .	....	Laperriére & fils, Pierreville.	....
" 17	"	39158	L. Deschenеau, Pierreville Mills.	3 " ..	" .	West. Canada F. Mills Co.	....	Registered No. 66 as best as I could read.
" 17	Middlings.	39159	"	3 " ..	" .	Maple Leaf M. Co., of Canada	... .	....
" 17	Shorts. ...	39160	D. Parent, Yamaska West.	3 " ..	" .	....	E. Benoit & fils, Montreal.	.....

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
Concluded.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
.....	.. ..		15·09	4·26	5·9	3	Wild oats.... .. .	37277	Genuine
9·50	4·50	13·0	8·72	3·68	15·3	100	Wild oats. Wild mustard.	37278	Meets guarantee as to food value.
.....	.....	.....	9·45	3·86	9·5	4	Wild oats.	37279	Genuine.
.....	.....	.....	7·55	1·62	15·1	3	Wild oats..	37280	Low in proteids, high fibre. Adulterated.
.....	..	.....	10·89	3·36	7·7		.....	37281	Genuine.
J. C. ROULEAU, INSPECTOR.									
.....	.. ..		14·88	4·60	8·3	..	....	39145	Genuine.
.....	.. ...		13·09	4·50	9·1	19	Campions. False flax.	39146	"
.....	.. ..		15·09	4·58	7·5	.	....	39147	"
.	....		17·91	4·58	9·10	..	.. . .	39148	"
	.. ..		14·00	4·64	8.8	..	....	39149	"
..	....		14·48	4·84	9·2	.	... ...	39150	"
. .	.. ..		15·57	4·30	8·8	32	Wild oats	39151	Genuine as to food value.
.. .	....		14·57	4·68	8·6	...	.. ..	39152	Genuine.
.....	.. .. ..		14·48	4·94	9·7	.....	....	39153	"
16·26	5·20	9·80	15·18	4·72	8·8	26	Stickseed. Wild oats.	39154	Meets guarantee as to food value.
.. ..			16·14	4·52	3·2	..	....	39156	Genuine.
.....	....		16·60	4·60	4·7	.	....	39157	"
16·82	5·50	10·86	11·94	4·08	12·3	..	....	39158	Low in proteids, either as guaranteed or as legal shorts. Adulterated.
. . ..	.... .		15·40	4·08	4·7	. .	. . ..	39159	Genuine.
.. .	....	...	15·71	3·50	1·3	.....	....	39160	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
						DISTRICT OF ST. HYACINTHE—		
1912.								
Sept. 18	Special Middlings	39161	C. Roberg., Sorel.	3 lbs.	Nil	Lake of the Woods M. Co., Montreal.		
" 18	Shorts.....	39162	U. St. Jean, Contrecœur.	3 "	"	Swan Lake Flour Mills Co.		
" 25	"	39163	Ed. Brosseau, Henryville.	3 "	"	St. Lawrence M. Co., Montreal.		
" 25	Middlings.	39164	"	3 "	"	"		
Oct. 2	Shorts.....	39165	Ed. Durand, Megantic.	3 "	"	Ont. & Manitoba F. M. Ltd., Ottawa.		
Sept. 16	Moulée....	39167	Jos. Laberte, St. Germain de Grantham.	3 "	"	W. J. Watkins, St. G. de Grantham.		Orge. Sarrazin Bléd'Inde & Pois.
" 16	Barley Feed	39168	E. Dionne, St. Bonaventure	3 "	"	Ogilvie M. Co., Montreal.		
" 17	Moulée 'Granite'	39169	A. Roberge, Yamaska East.	3 "	"	"		
" 18	Moulée Mélangée	39170	J. P. Paul, Sorel.	3 "	"		J. B. Gagne, Sorel.	Orge. Avoine & Sarrazin.
" 24	Moulee Orge.	39171	Chas. R. Cousins & Co., St. Jean..	3 "	"	Vendors		
" 26	'Kremo' Feed.	39172	N. Thompson, Frelishburg	3 "	"	West. Canada F. M. Co.		Registered No. 74.
" 27	Moulée....	39173	J. H. Brault, St. Armand.	3 "	"	The Quaker Oats Co., Peterboro		Registered No. 13.
Oct. 3	Moulée de Blé Endommagé..	39174	D. S. Bachand, Coaticook.	3 "	"	Vendor.....		
" 4	Moulée Melangee	39175	G. B. Reed, North Hatley.	3 "	"	"		About 50% BledInde & 50% Avoine.
" 9	Moulee 'Success'	39176	A. Leduc, Mansonville.	3 "	"	St. Lawrence F. M. Co., Montreal.		Bag stamped. Proteids 10·0%. Fat 2·50%--Fibre 18·0%.
						DISTRICT OF MONTREAL—		
Sept. 6	Bran.....	50931	Sinclair Bros., St. Lawrence Mkt. Place, Montreal.	3 lbs.	Nil.	Lake of the Woods Milling Co., Ltd.		
" 6	"	50932	S. Leclerc, 1646 St. Lawrence Montreal.	3 "	"	"		
" 6	"	50933	Canada Grain & Feed Co., St. Dominique St., Montreal.	3 "	5	Unknown		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.			Remarks and Opinion the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	No. of Sample.	
Concluded.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			16·42	3·72	3·4			39161	Genuine.
			15·18	1·40	1·3			39162	"
			16·14	5·20	6·5	32	Stinkweed, wild mustard.	29163	" as to food value.
			16·40	5·04	6·3	1	Wild mustard	39164	"
			17·30	4·98	5·7			39165	"
			11·22	1·86	5·5			39167	"
			13·47	3·31	3·6			39168	"
			15·88	3·88	1·3			39169	"
			9·62	2·34	15·0			39170	High in fibre—adulterated.
			12·12	2·10	1·8	141	Wild Oats, Ball mustard.	39171	Genuine as to food value.
11·56	2·16	16·20	10·67	1·70	11·2			39172	Up to guarantee.
10·50	4·00	10·50	10·55	3·26	9·6			39173	"
			13·43	2·42	2·7			39174	Genuine.
			9·90	1·60	1·5			39175	"
10·00	2·50	18·00	1·23	1·02	25·0			39176	Very low in proteids—high in fibre—adulterated.

J. J. COSTIGAN, INSPECTOR.

			11·74	4·62	9·8			50931	Genuine.
			14·92	4·58	9·9			50932	"
			15·31	4·78	5·6			50933	"

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1912.								
Sept. 7	Bran	50934	Brennan Currie & Co., Place Youville, Montreal.	3 lbs.	Nil.	Campbell M. Co. Peterboro, Ont		
" 16	"	50935	A. Guertin, 534 Notre Dame St. W., Montreal.	3 "	"	E. A. Barry		
" 18	"	50936	E. Benoit et fils, 181 St. Paul St., Montreal.	3 "	"	H. Cook Sons & Co., Hensal, Ont.		
" 16	"	50937	J. P. Lebel, 69 Commissioner St., Montreal.	3 "	5	Lake of the Woods M. Co., Ltd.		Protein 14·5%. Fat 4·0%. Crude Fibre 10·0%.
" 19	"	50938	F. X. Benoit, 201 St. Paul St., Montreal.	3 "	5	H. Cook Son & Co.		
" 6	Shorts	50941	Sinclair Bros., St., Lawrence Market Place, Montreal.	3 "	Nil.	Lake of the Woods M. Co., Ltd.		
" 7	"	50942	Brennan Currie & Co., Place Youville, Montreal.	3 "	5	Western Canada M. Co., Ltd.		
" 16	"	50943	A. Guertin, 534 Notre Dame St. W., Montreal.	3 "	5	E. A. Barry		
" 16	"	50944	E. Benoit et fils, 181 St. Paul St., Montreal.	3 "	5	Maple Leaf M. Co.		
" 18	"	50945	J. P. Lebel, 69 Commissioner St., Montreal.	3 "	8	Western Canada F. Mills Co.		Registered No. 63.
" 18	Middlings	50946	" "	3 "	7	Ogilvie F. Mills Co., Ltd.		
" 19	Shorts	50947	W. Lamarre & Co., Atwater Ave., Montreal.	3 "	Nil.	Dom. Flour M. Co., Ltd.		
" 19	Middlings	50948	F. X. Benoit, 201 St. Paul St., Montreal.	3 "	5			
" 20	Shorts	50949	F. Gobeille et fils, Henri Julian Ave., Montreal.	3 "	Nil.	Robin Hood Mills, Ltd.		
" 7	Chop Feed	50951	Brennan Currie & Co., Place Youville, Montreal.	3 "	"	McDonald Robb Co., Valleyfield, P.Q.		
" 18	"	50952	E. Benoit et fils., 181 St. Paul St., Montreal.	3 "	5	W. L. Hogg, Montreal.		
" 16	Middlings	50953	A. Guertin, 534 Notre Dame W., Montreal.	3 "	Nil.	Dom. Flour Mills Co., Ltd., Brantford, Ont.		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Continued.

p. c.	p.c.	p.c.	p.c.	p. c.	p.c.				
.....	.....		11·39	4·36	9·9	16	Wild oats. Ball mustard.	50934	Genuine.
.....	.....	.....	14·74	5·04	9·8	.....		50935	"
.....	.....	.....	14·17	4·36	7·6	.....		50936	"
14·50	4·00	10·00	16·44	4·50	9·2	.....		50937	Meets guarantee.
.....	.....	.....	14·57	3·82	6·7	.....		50938	Genuine.
.....	.....	.....	17·29	4·84	5·3	.....		50941	"
.....	.....	.....	14·13	4·02	9·6	18	Wild Oats. Campions	50942	" as to food value
.....	.....	.....	16·06	4·70	9·5	.....		50943	"
.....	.....	.....	16·58	4·08	9·6	.....		50944	"
18·38	6·02	7·99	17·98	5·22	5·1	.....		50945	Meets guarantee.
.....	.....	.....	15·97	3·80	3·8	.....		50946	Genuine.
.....	.....	.....	14·00	2·54	2·3	.....		50947	"
.....	.....	.....	16·84	4·00	3·6	.....		50948	"
.....	.....	.....	15·79	4·12	5·4	.....		50949	"
.....	.....	.....	16·10	3·54	7·6	3	Wild Oats.	50951	"
.....	.....	.....	10·28	3·96	12·6	5	"	50952	High in fibre. Pass, as high in fat.
.....	.....	.....	14·83	3·24	3·3	.....		50953	Genuine.

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1912.								
Sept. 18	Chop Feed	50954	J. P. Lebel, 69 Commissioner St., Montreal.	3 lbs.	5	Lake of the Woods M. Co., Ltd.		Kamoat Reg. No. 50.
" 19	"	50955	A. Lamarre & Cie., Atwater Ave., Montreal.	3 "	Nil.	Vendor		
" 19	"	50956	F. X. Benoit, 201 St. Paul St., Montreal.	3 "	5			"Champion".
" 20	"	50957	F. Gobeille et fils, Henri Julien Ave., Montreal.	3 "	Nil.	John Mackays, Bowmanville, Ont.		Pure Mixed Feed.
DISTRICT OF OTTAWA—								
Sept. 7	Bran	50288	C. Whitney & Son, Prescott.	3lbs.	Nil.	Ogilvie's Ltd.	Mfrs.	
" 7	Shorts	50289	" "	3 "	"	"	"	
" 7	Chop Feed.	50290	" "	3 "	"	"	"	
Aug. 30	Bran	50291	W. C. Sylvester & Son, Vankleek Hill.	3 "	"	Vendors.		
" 30	Shorts	50292	" "	3 "	"	"		
" 30	Chop Feed.	50293	" "	3 "	"	"		
" 31	Bran	50294	A. V. McLean, Perth, Ont.	3 "	"	Campbell M. Co., Peterborough.	Mfrs.	
" 31	Shorts	50295	" "	3 "	"	" "	"	
" 31	Chop Feed.	50296	" "	3 "	"	" "	"	
Sept. 6	Bran	50297	A. E. Cameron, Brockville.	3 "	"	Ogilvie M. Co.	"	
" 6	Shorts	50298	H. Brown & Sons, Brockville.	3 "	"	Quaker Oats Co., Peterborough.	"	
" 6	Chop Feed.	50299	A. E. Cameron, Brockville.	3 "	"	Vendor.		
" 17	Bran	51614	The Maple Leaf M. Co., Ltd., Ottawa.	3 "	"	Vendors		
" 17	Shorts	51615	" "	3 "	"	"		
" 17	Bran	51616	The West-Canada F.M.Co., Ottawa.	3 "	"	"		Reg. No. 66. Protein 16·82 %. Fat 5·5%. Fibre 10·86%.
" 17	Shorts	51617	" "	3 "	"	"		Reg. No. 63. Protein 18·38 %. Fat 6·02%. Fibre 7·99%.

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
Concluded.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
11·00	2·50	16·00	8·22	1·62	13·8			50954	Low in proteids as guaranteed. Adulterated
			10·25	5·30	8·2		6 Western False Flax	50955	Genuine.
			10·89	5·00	7·6		13 Stink Weed. Hare's Ear Mustard.	50956	"
			12·60	3·14	9·1			50957	"
J. A. RICKEY, INSPECTOR.									
			14·04	4·72	10·4			50288	Genuine.
			15·01	4·34	5·6			50289	"
			10·14	5·40	9·2		9 Western False Flax	50290	"
			16·23	3·68	6·9			50291	
			15·01	4·26	3·4			50292	"
			13·47	3·26	5·2		48 Wild Mustard	50293	" as to food value.
			13·82	4·34	8·3		48 Great Rag Weed. Sow Thistles. Canada Thistle.	50294	" "
			16·97	5·42	5·8		11 Wild Oats. Ball Mustard.	50295	"
			12·60	2·84	9·8			50296	"
			15·27	4·74	8·7			50297	"
			16·93	4·94	4·6		352 Tumbling Mustard.	50298	Genuine as to food value. High in weed seeds.
			10·60	5·36	7·3		18 Western False Flax. Wild oats.	50299	Genuine.
			14·26	4·28	8·7			51614	"
			15·35	3·68	5·2			51615	"
16·82	5·50	10·86	14·34	4·20	9·0		13 Wild oats. Wild Mustard. Hares Ear Mustard.	51616	Below guarantee in proteids. See note 1 p.
18·38	6·02	7·99	16·62	4·66	5·6			51617	Below guarantee. See note 2. Adulterated.

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1912.								
Sept. 17	Chop Feed.	51618	The West-Canada F.M.Co., Ottawa	3 lbs.	Nil.	Vendors		"Good Luck" Brand.
" 19	Bran	51620	J. A. Forward, Ottawa.	3 "	"	Lake of the Woods Milling Co.	Mfrs	
" 19	Shorts	51621	" "	3 "	"	" "	"	
" 19	Bran	51622	Wm. Scott & Co., Deschenes, P.Q.	3 "	"	Vendors		
" 19	Shorts	51623	" "	3 "	"	"		
" 19	Chop Feed.	51624	" "	3 "	"	"		Barley Chop.
" 20	"	51625	J. W. McKay, Ottawa.	3 "	"	W. R. Cummings, Cummings Bridge.	Mfr.	"All Grain."
" 20	"	51628	W. D. Ardley, Ottawa.	3 "	"	" "	"	
" 20	Bran	51629	A. Bergevin, Dalhousie St., Ottawa.	3 "	"	Ontario & Manitoba F.M.Ltd., Ottawa.	Mfrs	
" 20	Shorts	51630	" "	3 "	"	" "	"	
" 20	Shorts	51631	" "	3 "	"	Dowd Milling Co.	"	
" 20	Chop Feed.	51632	Larose Bros., Cumberland St. Ottawa.	3 "	"	Quaker Oats Co., Peterboro.	"	"Banner"—Reg. No. 16—Protein 8·5%—Fat 3·5%—Fibre 9·0%.
" 20	"	51633	Larose Bros., Cumberland St., Ottawa.	3 "	"	Chisholm M. Co., Toronto.	"	"Crescent"—Reg. No. 84—Protein 9·0%—Fat 5·0%—Fibre 20·0%.
" 20	Bran	51635	Ed. St. Germain, Byward Market, Ottawa.	3 "	"	Lake of the Woods M. Co., Keewatin.	"	No registered number on bags—Protein 14·5%—Fat 5·0%—Fibre 10%.
DISTRICT OF KINGSTON—								
Sept. 3	Bran	49570	Geo. Gibson, Kingston.	3 lbs.	5	Ogilvie Co.		
" 3	"	49571	W. P. Peters, Kingston.	3 "	10	Lake of the Woods M. Co., Ltd.		
" 3	"	49572	Hedley Shaw, Kingston.	3 "	10	Hedley Shaw Milling Co.		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.			
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
Concluded.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			12·30	3·88	11·6	64	Wild Oats, Wild Mustard, Cow Cockle.	51618	Genuine as to food value.
			14·78	1·86	9·6			51620	Genuine.
			16·90	4·74	5·2			51621	"
			14·83	4·74	10·2			51622	"
			15·22	4·40	8·9			51623	"
			11·40	1·88	4·4			51624	"
			10·98	4·28	9·0			51625	"
			14·17	2·32	5·4			51628	"
			14·78	4·34	8·8	21	Wild Oats	51629	"
			17·59	5·04	4·9			51630	"
			17·19	4·76	4·9			51631	"
8·56	3·50	9·00	8·58	3·24	6·4	1	Wild mustard	51632	Meets guarantee.
9·00	5·00	20·00	11·03	3·42	16·1	9	Stinkweed	51633	" "
11·50	4·00	10·00	15·14	4·58	8·8	3	Stinkweed	51635	" "

JAS. HOGAN, INSPECTOR.

			14·17	4·28	10·5			49570	Genuine.
			15·14	4·40	9·3			49571	"
			14·00	4·36	9·2			49572	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report (Is not an expression of opinion.)
								DISTRICT OF KINGSTON—
1912.								
Sept. 3	Bran	49573	Kingston M. Co., Kingston.	3 lbs.	5	Vendors		
" 3	"	49574	J. A. MacFarlane, Kingston.	3 "	5	West F. M. Co.		
" 3	"	49575	D. Hutchison, Kingston.	3 "	5	Ogilvie Co.		
" 4	"	49576	Anderson Bros.,, Kingston.	3 "		Hedley Shaw Milling Co.		
" 4	"	9577	C. H. Pickering Kingston.	"	6		W. P. Peters, Kingston.	
" 11	"	49578	Campbell, C. M. Co., Peterboro.	3 "	5	Vendors		
" 11	"	49579	Quaker Oats Co., Peterboro.	3 "	5	"		
" 3	Shorts	49580	Kingston M. Co., Kingston.	3 "	5	"		
" 3	"	49581	D. Hutchison, Kingston.	3 "	5	Ogilvie Co.		
" 4	"	49582	Anderson Bros., Kingston.		10	Hedley Shaw M. Co.		
" 4	"	49583	J. Martin, Kingston.	3 "	5	Hedley Shaw M. Co.		
" 9	"	49585	H. E. Fairfield, Belleviile.	3 "	5	Quaker Oats, Peterboro.		
" 9	"	49586	J. Panter & Son, Belleville.	3 "	5	J. Cook Hensall.		
" 10	"	49587	E. A. Duncans, Cobourg.	3 "	5	Ogilvie Co		
" 10	"	49588	The Thompson Macdonald Co., Cobourg.	3 "	5	Leach Co., Oak Lake.		
" 11	"	49589	Campbell F. Mills Co., Petorboro.	3 "	5	Vendors		
" 3	Chop Feed	49590	Geo. Gibson, Kingston.	3 "	5	Vendor.		
" 3	"	49591	W. J. Peters, Kingston.	3 "	10	"		
" 3	"	49592	Kingston Milling Co., Kingston.	3 "	5	Vendors		
" 3	"	49593	J. A. Farlane, Kingston.	3 "	6	West. F. Mills Co.		
" 3	"	49594	D. Hutchison, Kingston.	3 "	5	Vendor		
" 4	"	49595	Anderson Bros., Kingston.	3 "	10		W. J. Peters, Kingston.	
" 4	"	49596	C. H. Pickering, Kingston.	3 "	8		"	
" 4	"	49597	J. W. Martin, Kingston.	3 "	10	E. F. McBroon, Washburn.		
" 11	"	49598	Campbell F. Mills Co., Peterboro.	3 "	5	Vendors		
" 11	"	49599	Quaker Oats Co., Peterboro.	3 "	5	"		
" 11	Shorts	49600	"	3 "	5	"		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
Concluded.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			15·14	4·52	8·0			49573	Genuine.
			15·62	4·60	8·2			49574	"
			13·52	4·56	10·2			49575	"
			14·09	4·06	9·8			49576	"
			14·34	4·14	9·7			49577	"
			13·74	4·74	9·6			49578	"
			15·05	4·52	8·5			49579	"
			17·41	5·48	4·6			49580	"
			15·18	4·16	5·3			49581	"
			16·71	4·74	5·3			49582	"
			15·79	2·46	2·7			49583	"
			15·71	4·40	4·2			49585	"
			16·01	4·26	4·5			49586	"
			15·79	4·22	4·6			49587	"
			16·67	4·50	5·0			49588	"
			15·75	5·30	6·4			49589	"
			14·13	4·10	9·6	52	Wild mustard. Docks.	49590	Genuine as to food value.
			10·95	5·20	8·2	64	False Flax. Stinkweed	49591	" "
			10·71	3·76	9·3	4	False Flax	49592	Genuine.
			14·17	2·76	2·8	13	False Flax. Stinkweed	49593	" as to food value.
			10·94	4·00	9·2	8	Campions	49594	"
			10·11	4·25	9·2	32	Campions. False Flax Ragweed. Stinkweed Wild mustard.	49595	" as to food value.
			10·41	5·28	9·3	112	Wild oats. Wild mustard.	49596	" "
			10·87	5·68	8·7	48	Wild oats.	49597	" "
			9·28	2·64	1·1			49598	"
			8·30	3·24	10·0	6	False Flax	49599	Low in proteids; but excess fat compensates.
			17·06	4·36	5·5			49600	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
							DISTRICT OF TORONTO—	
1912.								
Sept. 18	Bran	51471	Jas. Pearson, 1948 Dundas St., West Toronto.	3 lbs.	5		West. Canada M. Co., Toronto.	Reg. No. 66—Protein 16·82 %—Fat 5·5% Fibre 10·86
" 19	"	51472	Lewis & Steveson, 942 Bloor St., West Toronto.	3 "	5	Lake of the Woods M Co. Ltd., Toronto.		Bags are branded L. W. Bran. K.
" 23	"	51473	R. Knowles, 658 Yonge St., Toronto.	3 "	5	Alex. Brown M. & E. Co. Ltd., Toronto.		Bags are branded with letter B.
" 23	"	51474	Wm. Stoughton, 439 Yonge St., Toronto.	3 "	5	The Campbell M. Co., Ltd., Toronto.		"Bull Rush" Brand.
" 30	"	51475	Jas. Dunlop Co., Ltd., 127 John St. South Hamilton.	3 "	5		S. Lukes Bradford.	
" 30	"	51476	J. Penfold, 98 John St., South Hamilton.	3 "	5		Dom. F. M. Co. Ltd., Hamilton.	
" 30	"	51477	W. Pringle & Son, 280 York St., South Hamilton.	3 "	5		Maple Leaf M. Co., Ltd., Port Colborne.	
" 30	"	51478	Bennett & Son, 188 King St., West Hamilton.	3 "	5		Ker Milling Co., Dundas	
" 30	"	51479	A. Dyment & Son, Boston & Emerald Sts., Hamilton.	3 "	5		Wood Milling Co., Ltd., Hamilton.	
" 30	"	51480	A. W. Swaize, 49 Barton St., East Hamilton.	3 "	6		Seaforth Milling Co., Ltd. Seaforth.	Bags are branded—Seaforth M. Co Ltd., Bran — Seaforth.
" 18	Shorts	51481	H. Dent, 1523 Dundas st. West Toronto.	3 "	5		Kewatin M. Co., Ltd., Toronto.	
" 19	"	51482	Chalmers Milling Co., East Toronto.	3 "	5	Vendors		
" 19	"	51483	Elliott & Armstrong, 1554 Danforth ave., East Toronto.	¾ "	5	West. Canada F. M. Co., Ltd., Toronto.		Reg. No. 63, Protein 18·38 %, *Fat 8·02 %, Fibre 7·99 %.*
" 19	"	51484	Crampsey & Kelly, 780 Dovercourt ave., Toronto.	3 "	5	Maple Leaf M. Co., Ltd., Toronto.		Bags are Branded, Maple Leaf Milling Co., Ltd., Trade Mark reg. Maple Leaf.

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.			
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre	No. per lb.	Chiefly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
H. J. DAGER, INSPECTOR.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
16·82	5·50	10·86	14·92	4·12	8·6	32	Campions. Hare's Ear mustard.	51471	Below guarantee in proteids. See 1—p.
.			14·39	4·66	9·5			51472	Genuine.
			14·04	4·56	9·4			51473	"
			14·39	4·50	9·6			51474	
			15·44	4·56	8·4	13	Wild oats	51475	
			13·65	4·50	9·2	176	False Flax. Canada Thistle. Wild oats. Hare's Ear mustard	51476	as to food value.
			15·57	4·62	7·2			51477	"
			14·65	4·48	9·4			51478	"
			14·04	4·20	8·2	640	Canada Thistle. False flax. Tumbling mustard. Docks. Campions.	51479	Genuine as to food value, very high in weed seeds.
			13·91	4·60	9·7	32	Ribgrass. Wild oats	51480	Genuine as to food value.
			17·46	4·72	4·7			51481	Genuine.
			16·72	4·58	2·3			51482	"
18·38	6·02	7·99	16·14	4·46	7·5			51483	Below guarantee. Meets requirements for Shorts. See Note 2, p. adulterated.
			16·10	4·30	7·0			51484	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
DISTRICT OF TORONTO—								
1912.								
Sept. 19	Shorts	51485	G. Forsyth, 495 Bathurst, Toronto.	3 lbs.	5	Alex. Brown M. Co., Ltd., Toronto.	....	....
" 20	"	51486	Geo. Forester, Newmarket.	3 " ..	5	....	Ogilvie Milling Co., Ltd., Montreal.	....
" 23	"	51487	Lake of the Woods M. Co., Ltd., Newmarket.	3 " ..	5	Vendors	....	....
" 30	"	51488	D. Stein, 444 York st., Hamilton.	3 " ..	5	Dom. F. Mills Co., Ltd., Hamilton.	....	....
" 30	" ...	51489	Geo. Matheson, 45 Wellington st. north, Hamilton.	3 " ..	5	The Ogilvie F. Mills Co., Ltd., Montreal.	....	....
Oct. 1	"	51490	W. Kerns & Co., Burlington.	3 " ..	5	Unknown	....	....
Sept. 18	Chop Feed (Screenings).	51491	The Campbell F. Mills Co., Ltd., West Toronto.	3 " ..	5	Vendors	....	Screenings from *various kinds of grain*
" 19	Chop Feed	51492	Wm. Hanna & Co., East Toronto.	3 " ..	5	"	....	Composed of Manitoba Wheat.
" 20	"	51493	Stiver Bros., Aurora.	3 " ..	10	"	....	....
" 20	"	51494	J. Reynolds, Aurora.	3 " ..	10	The Campbell F. M. Co., Ltd., West Toronto.	....	....
" 20	"	51495	W. J. Baldwin, Aurora.	3 " ..	5	Vendor	....	....
" 20	"	51496	W. H. Eves, Newmarket.	3 " ..	5	"	....	....
" 30	"	51497	Dom. Flour Mills Co., Ltd., 75 Main st east, Hamilton.	3 " ..	5	Vendors	....	....
" 30	"	51498	Hamilton Milling Co., Market and Park sts., Hamilton.	4 " ..	5	"	....	....
Oct. 1	"	51499	Kerr Milling Co., Ltd., Dundas.	3 " ..	5	"	....	....
" 3	"	51500	Wm. Clark, 49 McNab st north, Hamilton.	3 " ..	5	"	....	....
DISTRICT OF WINDSOR—								
Sept. 30	Bran. . .	48127	A. M. Hamilton & Son, London.	3 lbs..	6	King Milling Co., Sarnia.	....	....
" 30	Shorts	48128	" ..	3 " ..	6	Docter Milling Co., London.	....	....

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
Concluded.									
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
...	...	...	14·57	4·14	5·5	4	Western False Flax...	51485	Genuine
...	...	...	16·10	4·60	6·1	...	....	51486	"
...	...	...	17·02	4·90	5·4	...	...	51487	"
...	...	...	15·92	4·72	5·1	128	Western False Flax. False Flax. Stinkweed. Ball mustard. Wild mustard.	51488	Genuine as to food value.
...	...	...	15·75	4·74	4·6	64	False Flax. Wild mustard.	51489	...
...	...	...	15·44	3·80	6·7	64	Wild oats.	51490	...
...	...	...	12·26	3·36	12·1	96	Hare's Ear mustard. Campions. Stinkweed.	51491	...
...	...	...	13·26	2·64	3·6	...	.. ..	51492	Genuine.
...	...	...	12·64	2·44	4·1	14	Wild mustard.....	51493	"
...	...	...	13·21	2·54	2·7	11	Wild oats. Ball mustard,	51494	"
...	...	...	13·15	2·98	4·2	208	False Flax. Campions. Docks. Wild mustard.	51495	Genuine as to food value.
...	...	...	9·90	4·72	12·3	...	....	51496	Genuine.
...	...	...	12·13	3·20	4·9	288	False Flax. Wild oats.	51497	Genuine as to food value.
...	...	...	13·21	2·88	4·1	10	Campions. False Flax.	51498	Genuine.
...	...	...	11·84	4·76	7·8	...	....	51499	"
...	...	...	13·36	2·48	3·1	...	....	51500	"

JNO. TALBOT, INSPECTOR.

...	...	...	15·09	4·44	9·3	96	Docks. Wild oats. Wild mustard.	48127	Genuine as to food value.
...	...	...	16·23	4·40	7·0	...	....	48128	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF WINDSOR—		
1912.								
Sept. 30	Chop Feed.	48129	A. M. Hamilton & Son, London.	3 lbs.	6	Vendors		
" 30	Shorts	48130	Jas. Twitchen, London.	3 "	4	Docter & Son, London.		
" 30	Bran	48131	" "	3 "	4	J. Hawkins, St. Johns.		
" 30	Chop Feed	48132	" "	3 "	5	A. J. Sutherland, London.		
" 30	Shorts	48133	R. Hookway & Son, London.	3 "	7	Docter & Son, London.		
" 30	Bran	48134	" "	3 "	7	" "		
" 30	Chop Feed	48135	" "	3 "	7	Hunt Bros., London.		Corn chop.
" 30	Bran	48136	Leith & Staples, London East.	3 "	5	" "		
" 30	Shorts	48137	" "	3 "	5	" "		
" 30	Bran	48138	Adams & Tauton, London.	3 "	5	Harvey Bros., Exeter.		
" 30	Shorts	48139	" "	3 "	5	E. Docter & Son, London.		
" 30	Chop Feed	48140	" "	3 "	5	Unknown		Corn chop.
Oct. 2	Bran	48111	C. & J. Morrison, Petrolia.	3 "	5	C. B. Matthews & Son, Watford.		
" 2	Shorts	48142	" "	3 "	5	Empire F. Mills, St. Thomas.		
" 2	Chop Feed	48143	" "	3 "	5	Vendors		
" 2	Shorts	48144	John Bickle & Co., Petrolia.	3 "	Nil.	Lake of the Woods M. Co.		
" 2	Bran	48145	" "	3 "	"	" "		
" 2	Chop Feed	48146	" "	3 "	"	Vendors		
" 3	Shorts	48155	Gardener Bros., Sarnia.	3 "	5	Lake of the Woods M. Co.		
" 3	Bran	48156	" "	3 "	4	" "		
" 4	Shorts	48163	R. M. Pincombe, Strathroy.	3 "	Nil.	Vendor		
" 4	Bran	48164	" "	3 "	"	"		
" 4	Chop Feed	48165	" "	3 "	"	"		
" 4	Chop Feed	48166	S. S. Donaldson, Strathroy.	3 "	"	"		
" 4	Shorts	48167	" "	3 "	"			
" 4	Bran	48168	" "	3 "	"	"		

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
Concluded.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			11·51	3·78	6·0			48129	Genuine.
			16·80	5·86	6·1			48130	"
			15·09	4·54	9·9	4	Ragweed	48131	"
			8·46	2·68	6·6	48	Wild Mustard. Docks.	48132	Low in proteids. Adulterated.
			16·10	4·90	6·3			48133	Genuine.
			13·56	4·60	9·7	96	Purple Cockle. Ball mustard. Wild mustard Hare's Ear mustard.	48134	" as to food value.
			8·98	3·81	1·9			48135	"
			15·40	4·60	9·2			48136	"
			15·79	4·34	6·0			48137	"
			13·74	4·48	9·8			48138	"
			16·06	5·36	6·6			48139	"
			8·90	3·32	1·6	1	Hare's Ear mustard	48140	"
			13·74	4·16	6·1			48141	"
			16·40	4·90	4·4			48142	"
			12·43	2·10	3·8	4	Wild oats	48143	"
			17·86	4·42	4·4			48144	"
			14·09	4·00	5·8			48145	"
			11·33	3·46	7·7	13	Docks. Campions	48146	"
			17·02	4·90	5·8			48155	"
			15·53	4·52	9·9			48156	"
			14·88	3·54	4·9			48163	"
			13·39	4·12	9·0	5	Wild oats	48164	"
			11·55	2·78	6·6	32	Docks. Campions.	48165	" as to food value.
			11·88	4·20	7·1			48166	"
			15·05	4·00	4·6	16	False Flax	48167	"
			12·47	4·08	8·5			48168	Low in proteids compensating fat and fibre.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
						DISTRICT OF MANITOBA		
1912.								
Oct. 1	Bran	48751	The Lake of the Woods M. Co., Portage La Prairie.	3 lbs.	Nil.	Vendors		
" 2	"	48752	Western Canada F. Mills Co., Brandon.	3 "	"	"		
" 2	"	48753	Maple Leaf Milling Co., Brandon.	3 "	"	"		
" 2	"	48754	G. McCulloch & Sons, Souris.	3 "	"	"		
" 3	"	48755	Leitch Bros. M. Co., Oak Lake.	3 "	"	"		
" 4	"	48756	The Ogilvie F. Mills Co, Winnipeg.	3 "	"	"		
" 4	"	48757	Western Canada F. Mills Co., St. Boniface.	3 "	"	"		
" 1	Shorts	48761	The Lake of the Woods M. Co., Port La Portage.	3 "	"	"		
" 2	"	48762	Western Canada F. M. Co., Brandon	3 "	"	"		
" 2	"	48763	Maple Leaf M. Co., Brandon.	3 "	"	"		
" 2	"	48764	G. McCulloch & Sons, Souris.	3 "	"	"		
" 3	"	48765	Leitch Bros. M. Co., Oak Lake.	3 "	"	"		
" 4	"	48766	The Ogilvie F. Mills Co., Winnipeg.	3 "	"	"		
" 4	"	48767	Western Canada F. M. Co., St. Boniface.	3 "	"	"		
" 1	Chop Feed	48771	The Lake of the Woods M. Co., Portage La Prairie.	3 "	"	"		
" 2	"	48772	Western Canada F. M. Co., Brandon.	3 "	"	"		Oat Chop
" 2	"	48773	" "	3 "	"	"		Barley Chop
" 2	"	48774	G. McCulloch & Sons, Souris.	3 "	"	"		Oat Chop
" 1	"	48775	The Ogilvie F. Mills Co., Winnipeg.	3 "	"	"		"
" 4	"	48776	The Ogilvie F. M. Co., Winnipeg.	3 "	"	"		Barley Chop
" 4	"	48777	West Canada F. Mills Co., St. Boniface.	3 "	"	"		Oat Chop
" 4	"	48778	" "	3 "	"	"		Barley Chop

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
A. C. LARIVIERE, INSPECTOR.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			14·83	4·88	9·7	32	Wild Oats. Stink Weed.	48751	Genuine as to food value.
			16·67	4·78	8·5			48752	Genuine.
			16·44	5·12	9·3			48753	"
			15·35	4·44	8·6	23	Campions	48754	"
			14·83	5·20	8·6			48755	"
			15·35	5·04	8·7			48756	"
			16·93	5·06	7·8			48757	"
			17·41	5·40	3·1			48761	"
			17·02	4·54	5·7	48	Wild Oats. Campions. Ball Mustard.	48762	"
			17·72	5·54	5·6			48763	"
			18·07	5·12	4·3			48764	"
			16·44	5·08	6·6			48765	"
			17·41	4·52	5·1			48766	"
			16·73	4·78	4·6			48767	"
			11·16	2·64	4·4	5	Wild Oats	48771	"
			13·15	4·86	7·9	544	Wild Oats. Stink Weed. Stickseed. Ball Mustard.	48772	" as to food value very high in weed seeds
			13·30	2·48	4·7	13	Wild Oats Cow Cockle.	48773	Genuine.
			14·28	4·60	12·3			48774	"
			10·25	5·12	4·8			48775	"
			11·80	2·24	4·6	1,104	Wild oats. Stickseed. Campions. Stink-weed.	48776	Genuine as to food value Very high in weed seeds.
			10·60	3·46	8·0			48777	Genuine.
			12·06	2·54	5·8	48	Campions. False flax. Ball mustard.	48778	" as to food value.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)
						DISTRICT OF NELSON—		
1912.								
Sept. 3	Shorts	49675	Taylor M. & E. Co., Nelson, B.C.	3 lbs.	10	Macleod Milling Co., Macleod.	.....	....
" 3	"	49676	" "	3 "	"	Taylor M. & Co., Lethbridge.	.. ..	.....
" 3	Bran.....	49677	" "	3 "	"	" "	....	....
" 3	Chop Feed	49678	" "	3 "	"	" "	.....	Chopped Oats.
" 3	"	49679	Brackman Ker M. Co., Nelson, B.C.	3 "	"	Brackman Ker M. Co., Strathcona, Alta.	... .	"National."...
" 3	"	49680	" "	3 "	"	" "	....	Chicken.. ....
" 3	"	49681	" "	3 "	5	" "	....	Dairy..... ....
" 3	Bran.....	49682	" "	3 "	10	Ellison Mill & E. Co., Lethbridge	... .	..... .
" 3	"	49683	" "	3 "	"	Robin Hood Mills, Calgary.	.....	... .
" 6	"	49698	Smith & Welsh, Merritt, B.C.	3 "	"	Vanc. Mill & G. Co., Vancouver	.....	....
" 6	Shorts	49699	" "	3 "	"	" "	.....	... .
" 6	Chop Feed	49700	" "	3 "	"	Calgary M. Co., Calgary.	....	Wheat and Barley.
" 9	Bran	49729	Browne Bros., Revelstoke, B.C.	3 "	"	Ogilvie M. Co., Winnipeg.	... .	.....
" 9	Shorts	49730	" "	3 "	"	" "	....	.....
" 10	Bran.....	49739	C. B. Hume & Co., Revelstoke, B.C.	3 "	"	Robin Hood F. M. Co., Calgary.	....	....
" 10	Shorts	49740	" "	3 "	"	" "	....	. .....
" 23	Bran	49749	C. A. Warren, Golden, B.C.	3 "	"	....	Brackman Ker M. Co., Calgary.	....
" 23	Shorts	49750	" "	3 "	"	.. ..	" "	.....
" 23	Bran.....	49757	H. G. Parson, Ltd., Golden, B.C.	3 "	"	Robin Hood M. Co,, Moosejaw		.. ..
" 23	Shorts (Middlings).	49758	H. J. Parson, Ltd., Golden, B.C.	3 "	"	.....	.....	.. ..
" 23	Bran.....	49763	C. R. Lumber Co., Golden, B.C.	3 "	"	Alberta Pacific E Co., Calgary.	....	.....
" 23	Shorts	49764	C. R. Lumber Co., Golden, B.C.	3 "	"	Alberta Pacific E Co., Calgary.	....	.....
" 25	Bran.....	49773	C. B. Hume & Co., Arrowhead, B.C.	3 "	"	Robin Hood Mills, Moosejaw.	....	.....
" 25	Shorts	49774	C. B. Hume & Co., Arrowhead, B.C.	3 "	"	Robin Hood Mills, Moosejaw.	....	.....
" 25	"	49775	Reid & Young, Arrowhead, B.C.	3 "	15	Ellison M. & E. Co., Lethbridge.	....	....

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
THOS. PARKER, INSPECTOR.									
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
			15·09	4·06	3·4			49675	Genuine.
			13·78	2·04	1·4			49676	Low in proteids and fat. Adulterated.
			16·10	4·70	8·3			49677	Genuine.
			9·61	5·44	9·7			49678	"
			9·41	2·52	13·7			49679	High in fibre. Adulterated.
			17·76	6·26	5·3	64	Ball mustard.	49680	Genuine as to food value.
			9·55	4·32	18·2	3	"	49681	High in fibre. Compensating fat—2·32.
			16·40	1·48	8·7	48	Hare's Ear mustard. Wild oats.	49682	Genuine as to food value.
			15·01	5·00	9·4			49683	Genuine.
			14·88	5·06	8·9			49698	"
			15·97	4·68	5·4			49699	"
			12·95	2·38	3·5			49700	"
			13·78	4·24	10·3			49729	"
			16·54	3·88	3·7			49730	"
			13·74	4·02	8·4			49739	"
			16·27	4·46	4·1			49740	"
			17·46	4·78	7·6			49749	"
			15·92	4·04	5·8			49750	"
			15·18	4·56	8·4			49757	"
			18·07	5·38	3·4			49758	"
			15·92	4·81	7·9			49763	"
			15·97	5·08	3·6			49764	"
			13·87	4·26	8·4			49773	"
			16·06	4·52	2·8	16	False Flax. Stinkweed.	49774	"
			16·67	3·56	5·7			49775	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF VANCOUVER—					
1912.								
Oct. 1	Bran	38449	F. T. Vernon, Vancouver, B.C.	3 lbs.	20	Robin Hood Mills, Moosejaw, Sask.		
" 1	"	38450	Brackman Ker M. Co., New Westminster, B.C.	3 "	Nil.	Sask. F. Mills, Moosejaw, Sask.		
" 2	"	38451	McLellan McCarter, Ltd., Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
" 2	"	38452	Vancouver Milling Co., Vancouver, B.C.	3 "	"	Vendors		
" 2	"	38453	Henry Holtz & Co., Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
" 3	"	38454	Brown & Howey, Vancouver, B.C.	3 "	"	Robin Hood F. M. Moosejaw, Sask.		
" 3	"	38455	Donaldson & MacDonald, Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
" 3	"	38456	Hall & Willis, Vancouver. B.C.	2 "	"	Ellison M. Co., Lethbridge, Alta.		
" 9	"	38457	Brackman Ker M. Co., Vancouver, B.C.	3 "	"	Ellison M. Co., Lethbridge, Alta.		
" 10	"	38458	Gibson & Brown, Vancouver, B.C.	3 "	"	Robin Hood M. Co., Moosejaw, Sask.		
" 1	Shorts	38459	F. T. Vernon, Vancouver, B.C.	3 "	"	Robin Hood M. Co., Moosejaw, Sask.		
" 1	"	38460	Brackman Ker M. Co., Vancouver, B.C.	3 "	"	Sask. Milling Co., Moosejaw Sask.		
" 2	"	38461	McLellan & McCarter Co., Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
" 2	"	38462	Vancouver Milling Co., Vancouver, B.C.	3 "	"	Vendors		
" 2	"	38463	Henry Holtz & Co., Vancouver, B.C.	3 "	"	Vaucouver Milling Co., Vancouver.		
" 2	"	38464	Donaldson & McDonald, Vancouver, B.C.	3 "	"	Vancouver Milling Co., Vancouver.		
" 4	"	38465	Hall & Willis, Vancouver, B.C.	3 "	Nil.	Ellison Milling Co., Lethbridge Alta.		
" 4	"	38466	Brackman Ker M. Co., Vancouver, B.C.	3 "	"	"		

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
J. F. POWER, INSPECTOR,									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			15·05	4·84	9·3	11	Wild Mustard. Hares Ear Mustard.	38449	Genuine
			14·92	4·90	8·9			38450	"
			14·92	5·16	9·3	128	Stinkweed Wild Mustard.	38451	Genuine as to food value.
			14·57	5·02	9·5			38452	Genuine.
			14·74	4·98	8·8			38453	"
			14·61	4·90	8·7	32	Stinkweed. Hares Ear Mustard.	38454	Genuine as to food value.
			15·27	4·52	8·2			38455	Genuine.
			17·46	4·00	8·6			38456	"
			15·44	4·64	9·1			38457	"
			15·81	4·78	7·9			38458	"
			13·34	4·32	6·4			38459	Low in proteids, 1·66 Adulterated.
			15·01	4·96	8·0			38460	Genuine.
			15·48	4·72	5·6			38461	"
			15·75	5·06	5·0			38462	"
			15·62	4·64	5·3			38463	"
			13·91	4·16	5·7			38464	Low in proteids, 1·19— Adulterated.
			17·23	3·96	3·9			38465	Genuine.
			16·93	3·38	5·4			38466	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
						DISTRICT OF VANCOUVER—		
1912.								
Oct. 4	Shorts	38467	Gibson & Brown, Vancouver, B.C.	3 lbs.	Nil.	Robin Hood M. Co., Moosejaw Sask.	.....	.....
" 4	"	38468	A. E. Burnett & Co., Vancouver, B.C.	3 " ..	"	" ..	.....	.....
" 4	Chop Feed.	38469	F. T. Vernon, Vancouver, B.C.	3 " ..	"	Vendor	.....	.....
" 4	"	38470	Brackman Ker M. Co., New Westminister, B.C.	3 " ..	"	Vendors.....	.....	.....
" 2	"	38471	McLellan & McCarter Co., Vancouver, B.C.	3 " ..	"	"	.....	.....
" 2	"	38472	Vancouver Milling Co., Vancouver, B.C.	3 " ..	"	"	.....	.....
" 2	"	38473	Brown & Howey, Vancouver, B.C.	3 " ..	"	"	.....	.....
" 3	"	38474	Donaldson & MacDonald, Vancouver, B.C.	3 " ..	"	A. E. Burnett & Co., Vancouver.	.....	.....
" 4	"	38475	Hall & Willis, Vancouver, B.C.	3 " ..	"	" ..	.....	.....
" 9	"	38476	Brackman Ker M. Co., New Westminister, B.C.	3 " ..	"	Vendors.....	.....	.....
" 10	"	38477	Gibson & Brown, Vancouver, B.C.	3 " ..	"	Brown & Howey, Vancouver.	.....	.....
" 10	"	38478	A. E. Burnett & Co., Vancouver, B.C.	3 " ..	"	Vancouver M. Co., Vancouver	.....	.....
						DISTRICT OF VICTORIA—		
Oct. 24	Bran.....	49251	Brackman Ker Milling Co., Ltd., Victoria, B.C.	3 lbs..	3	Robin Hood M. Ltd., Calgary, Alta.	.....	Crude Protein 16·25%, Crude Fat 5·20%, Crude Fibre 9·80%.
" 24	"	49252	" ..	3 " .	4	Ogilvies F. M., Ltd., Winnipeg	.....	.....
" 24	"	49253	" ..	3 " ..	5	Ellison M. & E. Co., Ltd., Lethbridge.	.....	.....
" 24	Shorts	49254	" ..	3 " ..	5	" ..	.....	.....
" 24	"	49255	" ..	3 " .	5	Robin Hood M. Co., Ltd., Calgary, Alta.	.....	.....
" 24	"	49256	" ..	3 " ..	5	Ogilvies F. M. Co., Ltd., Winnipeg.	.....	"Nestor's" Feed Flour.

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.				
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. F. POWER, INSPECTOR—*Concluded.*									
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
			16·80	5·10	4·5			38467	Genuine
			16·84	4·72	4·8			38468	"
			10·02	6·68	8·6	18	Wild oats.	38469	Genuine as to food value
			10·41	3·36	8·1	112	Wild oats.	38470	" "
			10·76	2·94	2·1	64	False Flax. Ball mustard.	38471	" "
			12·99	4·98	5·3			38472	Genuine.
			11·16	3·82	6·2	80	Wild oats. Wild mustard.	38473	Genuine as to food value.
			13·36	5·66	8·1	17	Wild oats. Ball mustard. Hare's ear mustard.	38474	Genuine.
			11·08	5·82	7·5	432	Wild oats. Ball mustard.	38475	Genuine as to food value very high in weedseeds.
			10·28	4·94	8·6	8	Wild oats.	38476	Genuine.
			10·11	3·28	1·8			38477	"
			11·11	2·62	2·2	3	Ball mustard.	38478	"
D. O'SULLIVAN, INSPECTOR.									
16·25	5·20	9·80	15·71	4·96	8·4	6	Wild oats. Hare's ear mustard.	49251	Meets guarantee.
			13·82	4·64	10·3	21	Wild oats.	49252	Genuine.
			18·29	4·74	7·7			49253	"
			18·20	4·00	4·6			49254	"
			17·90	4·90	4·1			49255	"
			17·28	4·12	4·0			49256	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF VICTORIA—					
1912.								
Oct. 24	Shorts	49257	Brackman Ker MillingCo., Ltd., Victoria, B.C.	3 lbs.	4	Robin Hood M. Ltd., Calgary, Alta.	.....	.....
" 24	Chop Feed	49258	" ..	3 " ..	4	Vendors.....	....	"B & K Corn Chop" Protein 9·0%, Fat 4·0 %, Fibre 8·0%, Reg. No. 136.
" 24	"	49259	"	3 " ..	4	Vendors.....	.....	B. & K. Oat Feed. Protein 7·0%—Fat 3·0%—Fibre 15·0% —Reg. No. 137.
" 24	"	49260	"	"	4	"	.....	Jersey Dairy Feed. Protein 18·0%—Fat 5·0%—Fibre 10·0% —Reg. No. 138.
" 24	"	49261	" ..	"	4	"	.....	B.&K. Chicken Chop. Reg. No. 154.
" 24	"	49262	" ..	"	4	"	....	Soy Bean Oil Feed. Protein 45·0%—Fat 8·0%.
" 24	Bran.....	49263	Scott & Peden, Victoria, B.C.	"	5	Robin Hood Mills, Ltd., Calgary, Alta.	.....	Crude Protein 16·25 % — Crude Fat 5·20%—Crude Fibre 9·80%.
24	"	49264	" ..	"	5	Lake of the Woods M. Co, Ltd., Portage La Prairie.	.....	Crude Protein 14·5%—Crude Fat 4·0%— Crude Fibre 10·0%.
" 24	Shorts	49265	" .	"	5	" ..	....	....
" 24	"	49266	" ..	"	5	Ellison M. & E. Co., Ltd., Lethbridge, Alta.	....	.....
24	Chop Feed.	49267	" ..	"	10	Vanc. M. & Grain Co., Ltd., Vancouver, B.C.	.....	.....
25	Bran....	49268	J. B. Kelly, Sidney B.C.	"	5	Ogilvie F. M. Co., Ltd., Winnipeg	....	....
25	Shorts	49269	" ..	"	5	Med. Hat M. Co., Ltd., Med. Hat, Sask.	.....	....

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
Continued.									
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
.....	.....	.....	15·40	3·62	2·5	.....	.....	49257	Genuine
9·00	4·00	8·00	10 18	3·52	6·8	21	Ball mustard. Wild mustard.	49258	"
7·00	3·00	15·00	12·34	3·62	17·9		.....	49259	Meets guarantee.
18·00	5·00	10 00	15 44	4·40	11 1		.....	49260	Below guarantee in proteids. Adulterated.
15·00	5·00	5 00	14 41	4·24	4 9		.....	49261	Meets guarantee.
45·00	8·00	.....	15·50	8·14	4 8		.....	49262	"
16·25	5·20	9 80	15 05	4·84	8·3	16	Wild oats, wild mustard.	49263	"
14·50	4·00	10 00	15·27	1·78	9·2	24	Stinkweed	49264	"
.....	.....	.....	16·84	5 30	5·8	32	Stinkweed, ball mustard.	49265	Genuine as to food value.
.....	.....	.....	16·27	4·14	2 8	21	Wild oats	49266	Genuine.
.....	.....	.....	11·46	3·48	8·0	.....	.....	49267	"
.....	.....	.....	14·83	4·74	10·4	.....	.....	49268	"
.....	.....	.....	16·63	5·30	4·1	.....	.....	49269	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
								DISTRICT OF VICTORIA—
1912.								
Oct. 25	Shorts ...	49270	J. B. Kelley, Sidney, B,C.	3 lbs.	5	West. Canada F. Mills, Ltd., St. Boniface, Man.	....	Protein 18·38% —Fat 6·02%— Fibre 7·99%.
" 25	Chop Feed.	49271	" ..	"	10	Brackman Ker M. Co., Ltd., Victoria, B.C.	....	Protein 45·0% —Fat 8·0%.
" 26	Bran.....	49272	Sylvester Feed Co., Victoria, B.C.	"	5	Robin Hood Mills, Ltd., Calgary, Alta.	....	.....
" 26	Shorts	49273	" ..	"	5	" ..	....	....
" 30	Bran.....	49274	Vanc. Milling & Grain Co., Ltd, Kingston and Victoria, B.C.	"	5	Vanc. M. and GrainCo., Ltd., Vanc., B.C.	....	.....
" 30	Shorts ...	49275	" ..	"	5	" ..	....	.....
" 30	Chop Feed.	49276	" ..	"	5	" .	....	....
" 30	"	49277	" ..	"	5	" ..	....	"Milk Feed".
" 30	"	49278	" ..	"	10	Pacific Oil Mills, Seattle, Wash.	....	"Proteing Soy Bean."
" 1	Brnn.....	49279	Simon Leiser & Co., Ltd., Yates St., Victoria, B.C.	"	Nil.	Vanc. M. and GrainCo., Ltd., Vanc., B.C.	.....	... .
" 31	"	49280	" ..	"	"	Ogilvie F. Mills, Ltd., Winnipeg	....	.....

SESSIONAL PAPER No. 14

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.			
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.	No. of Sample.	Remarks and Opinion of the Chief Analyst.

Concluded.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
18·38	6·02	7·99	18·38	5·60	4·8	....	.....	49270	Meets guarantee.
15·00	8·00	...	43·00	8·44	4·3	....	.....	49271	Low in proteids 2·0. special feed; technical adulterated.
.....	.....	.....	14·96	4·62	8·6	112	Wild Oats, Hare's Ear Mustard, Wild Mustard.	49272	Genuine as to food value.
.....	.....	.....	17·5	5·40	5·0	.....	....	49273	Genuine.
.....	.....	.....	16·27	5·20	8·8	15	Stinkweed, Wild Mustard.	49274	"
.....	.....	.....	13·61	4·38	6·4	.....	....	49275	Low in proteids. Adulterated.
.....	.....	.....	11·64	3·00	9·1	2	Ball Mustard	49276	Genuine.
.....	.....	.....	11·81	3·22	12·0	.....	....	49277	"
.....	.....	.....	42·76	8·52	4·6	.....	....	49278	Should be sold with guarantee. Doubtful.
.....	.....	.....	15·62	4·60	7·6	.....	....	49279	Genuine.
.....	.....	.....	14·83	4·62	9·4	256	Hare's Ear Mustard...	49280	" as to food value

APPENDIX S.

BULLETIN No. 255—SWEET SPIRIT OF NITRE.

OTTAWA, March 28, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I beg to hand you a report upon 73 samples of Sweet Spirit of Nitre, obtained by our inspectors during December, 1912, and January, 1913.

The report shows that 41 samples contain the legal amount of Ethyl Nitrite, while 32 samples contain less than the minimum permitted by the British Pharmacopœia.

This important drug has on two former occasions been the subject of inspection, and has always been found to show a high percentage of adulteration; consisting not in the addition of foreign matters, but in containing less of the active principle (Ethyl Nitrite) than the standard set by the pharmacopœias requires.

As has been pointed out in former bulletins, and emphasized by the pharmacopœias, the article is prone to decomposition; and, unless kept with special care, will always deteriorate in the hands of the dealer. This fact is so well known to the drug trade that physicians have a right to expect special care on the part of the druggist, who is properly held responsible for the quality of the drugs he dispenses. The following table presents the results of three inspections of Sweet Spirit of Nitre:—

Bulletin.	Year.	Total samples.	Genuine.	Adulterated.
			p.c.	p.c.
167	1908	77	37	63
234	1911	74	57	43
255	1913	73	56	44

The minimum amount of Ethyl Nitrite required by the British Pharmacopœia is one and three-quarters per cent (1·75) by weight. Of the collection now reported, 44 per cent of the samples contain less than this amount; 30 per cent contain less than 1 per cent of Ethyl Nitrite; 14 per cent contain less than one-half of 1 per cent; while nearly nine per cent of the samples contain none at all.

Although the names of the manufacturers, or furnishers, as supplied by the vendor, are given in their proper places in the appended table, it is but right to insist that responsibility for the quality of Sweet Spirit of Nitre should rest upon the immediate dealer, or vendor of the article. There is no reason to believe that any manufacturer of repute furnishes this drug otherwise than up to standard strength. The name of the manufacturer or furnisher is given in accordance with Section 19 of the Act, and not because of any proved negligence on his part.

It is abundantly evident, in view of the continued sale of this drug in a condition in which it seriously handicaps the physician, and imperils the well-being of the patient, that druggists must be made to realize their responsibility in dispensing drugs which fail to meet the standard set by the pharmacopœias.

I beg to recommend publication of this report as Bulletin 255.

I have the honour to be, Sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

NOTE.

It seems proper to explain that there is always considerable delay in publishing the results of analysis, due to correspondence with manufacturers and vendors, involving weeks or months in some instances. In the present case, collection of samples was made by our inspectors between the 15th December, 1912, and the 30th January, 1913. The samples were contained in 2-ounce bottles and quite filled. On receipt here they were at once placed in a dark refrigerator. Analysis was begun on the 15th January, and very few samples were more than two or three weeks in storage.

Under these conditions, I cannot believe that deterioration proceeded while the samples were in the possession of the department.

Experiments made by the late Franklin T. Harrison, Public Analyst, proved that Sweet Spirit of Nitre made according to British Parmacopœal directions can be kept, without change, for a year, under proper precautions. (See Bull No. 23, p. 7.)

If this important drug cannot be procured by physicians in such condition as the pharmacopœia requires, it should either be removed from the pharmacopœia altogether, or physicians must learn to employ it in full knowledge of its doubtful character and be prepared for most erratic and uncertain results.

The fact is that it can be prepared and kept by careful and intelligent druggists, and that this is not done must be regarded as a disgrace to the drug trade, and a very serious menace to the public.

BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid.	Ethyl Nitrite per cent by weight.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.													
1913.											p.c.		
Jan. 14	Spirit of Nitrous Ether.	46641	National Drug Co., Halifax, N.S.	6 oz.	60	Unknown	Unknown		0·840	8·96	3·26	46641	Genuine.
" 16	"	46642	Buckley Drug Co., Halifax, N.S.	6 "	60	Nat. Drug Co., Halifax, N.B.	Mfrs.		0·859	2·77	1·01	46642	Adulterated.
" 16	"	46643	J. McD. Taylor, Halifax, N.S.	6 "	60	Howard & Sons, London, Eng.	E. B. Sutcliffe, Halifax, N.B.		0·847	1·42	0·59	46643	"
" 16	"	46644	Jas D. Walsh, Halifax, N.S.	6 "	50	" "	"		0·848	2·52	0·91	46644	"
" 20	"	46645	H. E. Wilson, Windsor, N.S.	6 "	40	Lymans Ltd., Montreal.	Mfrs.		0·863	6·64	2·41	46645	Genuine.
DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.													
Jan. 6	Spirit of Nitrous Ether.	46354	Geo. E. Hughes, Charlottetown, P.E.I.	6 oz.	60	Lymans' Ltd., Montreal.			0·845	3·79	1·14	46354	Adulterated.
" 7	"	46355	D. O. M. Reddin, Charlottetown, P.E.I.	6 "	60				0·853	2·67	0·97	46355	"
" 7	"	46356	J. G. Jamieson, Charlottetown, P.E.I.	6 "	75	Lyman's Ltd., (Special) Montreal.			0·855	2·86	1·04	46356	"
" 13	"	46357	The Two Mac's Charlottetown, P.E.I.	6 "	60	Lyman Sons & Co., Montreal.			0·843	1·62	0·59	46357	"
" 14	"	46358	F. W. Jardine, Kensington, P.E.I.	6 "	60	Evans Sons Lescher & Webb, Ltd., Liverpool, Eng.			0·850	2·01	0·73	46358	"

DISTRICT OF NEW BRUNSWICK—JOHN C. FERGUSON, INSPECTOR.

1912.																
Dec. 19	Spirit of Nitrous Ether.	50530	The Nat. Drug Co., Ltd., St. John, N.B.	6 oz.	60	Nat Drug Co., Ltd., Montreal.			0·852	7·53	2·74	50530	Genuine.	
24	"	50531	The Canadian Drug Co., Ltd., St John, N.B.	6 "	50	E. Merck, Darmstadt, Germany.			0·844	7·62	2·77	50531	"	
1913.														
Jan. 9	"	50532	Baird Co , Ltd., Woodstock, N.B.	6 "	30	Vendors.			0·884	7·57	2·85	50532	"	
16	"	50533	Leger Drug Co., Moncton, N.B.	6 "	60	Mallinckrodt Chem. Wks., St. Louis, N.Y.			0·823	9·57	3·48	50533	"	
16	"	50534	Fairweather Bros., Moncton, N.B.	6 "	50	Nat. Drug & Chem. Co., St John & Montreal.			0·819	5·53	2·06	50531	"	

DISTRICT OF QUEBEC F. X. W. E. BELAND, INSPECTOR

1912.														
Dec. 18	Spirit of Nitrous Ether.	37282	A. Martineau, 731 Rue St. Valier, Quebec.	6 oz.	50		W. Brunet & Cie, Quebec.		0·950	0·00	0·00	37282	Adulterated, ethyl nitrite.	No
" 18	"	37283	J. Masson, 805 Rue St. Valier, Quebec.	6 "	50	Nat. Drug Co	Mfrs		0·827	5·48	2·00	37283	Genuine.	
" 18	"	37284	J. B. Giroux, 785 Rue St. Joseph, Quebec.	6 "	40	E.B. Shuttleworth, Toronto.	W. Brunet & Cie, Quebec.		0·951	0·00	0·00	37284	Adulterated. ethyl nitrite.	No
" 18	"	37285	W. Brunet & Cie, 139 Rue St. Joseph, Quebec.	6 "	50		Mfrs		0·927	0·00	0·00	37385	"	"
" 18	"	37286	L. E Martel, 51 Rue St. Joseph, Quebec.	6 "	60	Mallinckrodt Chem. Co.	"		0·828	5·08	1·85	37286	Genuine.	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid.	Ethyl Nitrite per cent by weight.		
											p.c.		
DISTRICT OF EASTERN QUEBEC—A. PELLETIER, INSPECTOR.													
1912.													
Dec. 24	Spirit of Nitrous Ether	53306	L. J. Mareau, Rimouski.	6 oz..	50	.....	L. McEwen Co., Montreal.	.....	0·831	6·96	2·53	53306	Genuine.
" 24	" ..	53307	F. T. Lepage, Rimouski.	6 " ..	50	Howard & Sons, Stratford, Ont.	.....	.....	0·845	1·90	0·70	53307	Adulterated.
" 26	" ..	53310	E. O. Clouthier, Fraserville.	6 " ..	75	W. Brunet, Quebec.	.....	.....	0·946	0·00	0·00	53310	Adulterated. No ethyl nitrite.
DISTRICT OF EASTERN TOWNSHIPS—J. J. COSTIGAN, ACTING INSPECTOR.													
1913.													
Jan. 28	Spirit of Nitrous Ether.	51151	D. Richard, Sherbrooke, P.Q.	6 oz.	65	Lyman Knox Co., Montreal.	.....	.....	0·834	6·50	2·36	51151	Genuine.
" 29	" ..	51152	E. C. Drolet, Coaticook.	6 " ..	50	Nat. Drug & Chem. Co., Ltd.	.....	.....	0·857	5·12	1·90	51152	"
" 30	" ..	51153	J. C. Stockwell, Danville, P.Q.	6 " ..	50	Lymans Ltd.....	.....	.....	0·844	5·80	2 11	51153	"
" 30	" ..	51154	J. A. Viger, St. Hyacinthe, P.Q.	6 " ..	45	"	.....	.....	0·857	2·47	0·90	51154	Adulterated.
" 30	" ..	51155	J. H. E. Brodeur, St. Hyacinthe, P.Q.	6 " ..	60	.....	.....	.....	0·850	0·44	0·16	51155	"

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

1912.														
Dec. 31	Spirit of Nitrous Ether.	51071	H. R. Huot, Laurier ave. west, Montreal.	6 oz..	60	Lymans Ltd.....	.....	.....	0·839	1·78	0·65	51071	Adulterated.	
" 31	"	51072	J. H. Harte, 216 Laurierave.west, Montreal.	6 " ..	60	Nat. Drug & Chem. Co., Ltd.	...	.....	0·842	7·26	2·44	51072	Genuine.	
" 31	" ..	51073	F. E. Morgan, 168 Fairmount ave west, Montreal.	6 " ..	60	.....	.....	.....	0·850	6·31	2·30	51073	"	
" 31	" ..	51074	Fairmount Medical Hall, 2008 Clarke st., Montreal.	6 " ..	60	.....	.....	.....	0·854	7·26	2·64	51074	"	
" 31	" ..	51075	Quenneville & Guerin, 2003 St. Lawrence Blvd., Montreal.	6 " ..	60	.....	.....	.....	0·830	6·08	2·21	51075	"	

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

Dec. 23	Spirit of Nitrous Ether.	51672	Chas A Adams Kemptville.	oz..	60	.....	T. Chamberlin & Co., Prescott.	.....	0·937	0·00	0·00	51672	Adulterated. No ethyl nitrite.
" 24	" ..	51673	M. R. MacFarlane, Almonte.	6 " ..	60	Lymans Ltd.. Montreal.	Mfrs...	.....	0·871	1·82	0·66	51673	Adulterated.
" 26	" ..	51674	The Ottawa Nat. Pharmacy, Ltd., Dalhousie st., Ottawa.	6 " ..	30	Vendors	.....	.....	0·831	2·67	0·97	51674	"
" 27	" ..	51675	La Pharmacie Moderne, Ltd., Hull, P.Q.	6 " ..	70	Nat. Drug & Chem. Co., Ltd., Ottawa.	Mfrs..	.....	0·850	2·25	0·82	51675	"
" 30	" ..	51676	D. J. Stalker, druggist, Ottawa.	6 " ..	60	" "	"	.....	0·857	5·20	1·89	51676	Genuine.

BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).	Results of Analysis. Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid.	Ethyl Nitrite per cent by weight.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
DISTRICT OF KINGSTON—JAS. HOGAN, INSPECTOR.													
1912.											p. c.		
Dec. 18	Spirit of Nitrous Ether.	53021	D. G. Blurker, Belleville.	6 oz.	20	Nat. Drug Co., Toronto.			0·887	5·05	1·84	53021	Genuine.
" 18	"	53022	D. M. Waters, Belleville.	6 "	35	Vendor			0·875	5·50	2·00	53022	"
" 18	"	53023	O. G. Johns, Cobourg.	6 "	50	Howard			0·845	3·74	1·36	53023	Adulterated.
" 18	"	53024	T. G. Watson, Port Hope.	6 "	60	Nat. Drug Co., Toronto.			0·845	6·50	2 30	53024	Genuine.
" 19	"	53025	C. M. Moncur, Peterboro.	6 "	70	" "			0·864	4·75	1·73	53025	"
DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.													
1913.													
Jan. 14	Spirit of Nitrous Ether.	51571	A. E. Gregory, 158 Main St. East, Toronto.	6 oz.	30	Vendor			0·896	1·63	0·61	51571	Adulterated.
" 14	"	51572	J. A. Gallagher, Jones and Gerrard Sts., Toronto.	6 "	35		Drug Trading Co., Ltd., Toronto.		0·959	0·00	0·00	51572	" No ethyl nitrite.
" 14	"	51573	W. A. Hertel, Lansdown and Wallace Sts., Toronto.	6 "	50		Nat. Drug & Chem. Co., Ltd., Toronto.		0·919	0·31	0·14	51573	Adulterated.
" 14	"	51574	Mackenzie Brown, 282 Roger Ave., Toronto.	6 "	35	Unknown	Unknown		0·918	0·35	0·13	51574	"
" 14	"	51575	C. J. Stoddart, 1781 Dundas St. West, Toronto.	6 "	50		Lyman Bros. & Co., Ltd., Toronto.		0·918	2·83	1·03	51575	"

DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

Jan.	2	Spirit of Nitrous Ether.	47906	W. T. Rapley & Co., Strathroy.	12oz	105		Nat. Drug Co., London.		0·841	5·21	1·91	47906	Genuine.
"	3	"	47908	T. H. Hyde, Woodstock, Ont.	6 "	60		Nat. Drug Co., Hamilton.		0·825	7·18	2·61	47908	"
"	3	"	47913	E. A Rea, Woodstock, Ont.	6	50	Vendor			0·872	10·20	3·73	47913	"
"	6	"	47918	E. C. Harvey, St. Thomas.	6 "	60	"		Made from concentrated ether.	0·828	3·99	1·47	47918	Adulterated.
"	6	"	47921	F. P. Reynolds, St. Thomas.	6 "	60		Lyman Bros., Toronto.		0·828	9·40	3·43	47921	Genuine.

DISTRICT OF MANITOBA H. ASHTON, ACTING INSPECTOR.

Jan.	31	Spirit of Nitrous Ether.	48801	C. A. Baird, Grosvenor & Stafford, Winnipeg.	6 oz	75	Mallinckrodt, New York.			0·826	7·41	2·69	48801	Genuine.
"	31	"	48802	Brookings Drug Store, 751 Croydon, Winnipeg.	6 "	45	"			0·813	10·69	3·67	48802	"
"	31	"	48803	F. L. Brown, 551 Pembina, Winnipeg.	6 "	50	"			0·832	8·76	2·39	48803	"
"	31	"	48804	B. C. Juby, Pembina St., Winnipeg.	6 "	60				0·831	9·61	3·58	48804	"
"	31	"	48805	F. P. Seale, 226 River Ave., Winnipeg.	6 "	50	Nat. Drug & Chem. Co. of Canada.			0·827	4·57	1·67	48805	Adulterated.

DISTRICT OF ROCKY MOUNTAINS—THOS. PARKER, INSPECTOR.

Jan.	3	Spirit of Nitroas Ether.	49793	Urarm Drug Store, Grand Forks, B.C.	6 oz.	75	Nat. Drug Co., Vancouver, B.C.			0·845	2·88	1·06	49793	Adulterated.
"	3	"	49794	Woodland & Co., Grand Forks, B.C.	6 "	60	May & Baker, London, Eng.			0·848	5·00	1·82	49794	Genuine.
"	8	"	49802	Canada Drug & B. Co., Nelson, B.C.	6 "	75	Nat. Drug Co., Vancouver, B.C.			0·829	8·25	3·00	49802	"
"	8	"	49803	Poole Drug Co., Nelson, B.C.	6 "	75	Mallinckrodt Chem. Wks. St., Louis, Missouri.			0·829	8·02	2·98	49803	"
"	8	"	49804	Rutherford Drug Co., Nelson, B.C.	6 "	60	May & Baker, London, Eng.			0·844	7·56	2·75	49804	"

BULLETIN No. 255—SPIRIT OF NITROUS ETHER.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.			No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer	Furnisher.		Sp. Gr. at 15° C.	Ratio of vol. of Gas to vol. of Liquid	Ethyl Nitrite per cent by weight.		
											p.c.		
DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.													
1913.													
Jan. 22	Spirit of Nitrous Ether.	38484	W. E. Almas, Pender & Burrard St. Vancouver, B.C.	6 oz..	90	....	Vendor	Made from Mallinckrodt's concentrated nitrous ether.	0·829	8·68	3·16	38484	Genuine.
" 22	"	38485	Campbell's Ltd., Drug Co., Granville & Hastings Sts., Vancouver, B.C.	6 " ..	75	....	Vendors.....	"	0·832	9·92	3·61	38485	"
" 22	"	38486	Owl Drug Store, Dunsmuir & Granville Sts., Vancouver, B.C.	6 " ..	75	....	.....	.....	0 835	4·51	1·64	38486	Adulterated.
" 22	"	38487	Vancouver Drug Co., Granville St., Vancouver, B.C.	6 " ..	75	.....	Vendors.....	Made from Mallinckrodt's concentrated nitrous ether.	0·830	10·41	3·78	38487	Genuine.
" 22	"	38488	Leslie Henderson, Georgia & Granville Sts., Vancouver, B.C.	6 " ..	75	Nat. Drug & Chem. Co., Vancouver, B.C.	....	.....	0·822	9·54	3·47	38488	"

Jan.	28	Spirit of Nitrous Ether	53508	F. J. Williams, 613 Fort St., Victoria B.C.	6 oz.	35	Vendor		Made from concentrated nitrous ether supplied by Mallinckrodt, St. Louis, Missouri.	0·832	6·25	2·27	53508	Genuine.
	28	"	53509	D. E. Campbell, 650 Fort St., Victoria B C.	6 "	75	Burgoyne Burbridges, London, Eng.			0·846	5·61	2·06	53509	"
	28	"	53510	Terry's Drug Store, 705 Fort St., Victoria, B.C.	6 "	50	Vender		Made from concentrated nitrous ether supplied by Mallinckrodt, St. Louis, Missouri.	0·993	0·07	0·02	53510	Adulterated.
	28	"	53511	Central Drug Store 702 Gates St., Victoria, B.C.	6 "	75	Lyman's Ltd., Montreal.			0·839	4·26	1·55	53511	"
	28	"	53512	John Cochrane, 1300 Douglas St., Victoria, B.C.	6 "	75	May & Baker, London, Eng.			0·813	6·78	2·46	53512	Genuine.

APPENDIX T.

BULLETIN No. 256—OLIVE OIL.

OTTAWA, March 28, 1913.

WM. HIMSWORTH, Esq.,

Acting Deputy Minister, Inland Revenue.

SIR,—I beg to hand you a report upon thirty-six samples of Olive Oil, purchased in certain districts of Canada by our Inspectors, during December of last year and January of this year.

Definitions for Edible Vegetable Oils were legalized by Order in Council of March, 1912; and are published as Circular G. 1002.

28.
FOOD.

G. 1002.
10,000.

DEPARTMENT OF INLAND REVENUE.

OTTAWA, April 9, 1912.

MEMORANDUM.

Under the authority of an Order of His Royal Highness, in Council, bearing date the twenty-eighth day of March ultimo, and in virtue of the provisions of the twenty-sixth section of the "Adulteration Act," the following standards of quality have been established for "Edible Vegetable Oils":—

EDIBLE VEGETABLE OILS.

1. *Olive Oil, Sweet Oil*, is entirely a product of the fruit of the olive tree.
   Its specific gravity, at 15·5°C., is not less than 0·9140 nor more than 0·9196.
   Its specific refractive index, at 15·5°C., is not less than 1·4700 nor more than 1·4718.
   Its Maumene number lies between 42 and 52.
   Its iodine absorption number (using the Hubl solution) lies between 77% and 94%.
   Its saponification number (Koettstorfer number) lies between 185·0 and 195·0.
   It does not contain above 3·5% of free fatty acids.

2. *Cotton seed oil* is the oil obtained from the seeds of cotton plants and subjected to refining processes. It is free from rancidity; has specific gravity, at 15·5°C., between 0·9216 and 0 9300; has a refractive index (at 25°C) not less than 1 4700 and not more than 1·4725, and an iodine number not less than 104 nor more than 110 (Hubl solution).

3. *Salad oil.* Either of the above may be sold as salad oil; but when Cotton Seed Oil is offered as Salad Oil, the fact that the article is Cotton Seed Oil must be declared on the label.

4. Mixtures of *Cotton Seed Oil* with *Olive Oil* must be so declared on the label.

The standards above defined take effect on the 13th May proximo.

W. J. GERALD,

Deputy Minister.

Two samples of the present collection are found to be adulterated, as containing cotton seed oil.

The following synopsis of inspections of Olive Oil is instructive:—

Date.	Bulletin.	Total samples.	Percentage adulteration.
1889	67	75	40
1905	111	108	15
1908	159	82	19
1911	229	152	8
1913	256	36	6

It is apparent that there has been great improvement in the character of Olive Oil sold in Canada since the date of first inspection in 1889.

I beg to recommend publication of this report as Bulletin No. 256.

I have the honour to be, Sir,

Your obedient servant,

A. McGILL,

Chief Analyst

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Refractive Index at 15·5°C.	Iodine number.	Nitric Acid Colour test.	Halphen colour test.		
DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.														
1913.														
Jan. 14	Olive Oil.	46646	Nat. Drug Co., Halifax, N.S.	20 oz.	150	Unknown	Evans Sons, Lescher & Webb. Liverpool, Eng		1·4707		Green		46646	Genuine.
" 17	"	46647	Wentzell's, Ltd., Halifax, N.S.	2 "	65	A. Gilbert & fils, France.	Mfrs		1·4706		"		46647	"
" 17	"	46648	Bauld Bros., Ltd., Halifax, N.S.	2 "	69	Holbrook Co., London, Eng.	"		1·4706		"		46648	"
" 17	"	46649	John Tobin & Co., Halifax, N.S.	2 "	40	Lazenby & Son, London, Eng.	"		1·4706		"		46649	"
" 17	"	46650	R. B. Seeton & Co. Halifax, N.S.	2 "	60	Crosse & Blackwell, London, Eng.	"		1·4704		"		46650	"
DISTRICT OF QUEBEC—F. X. W. E. BELAND, INSPECTOR.														
1912.														
Dec. 18	Olive Oil.	37287	A. Martineau, 734 Rue St. Valier, Quebec.	3 bots	75	Ulric Francoeur, Hillhurst, P.Q.	Lemieux Brunet & Cie.		1·4708		Green		37287	Genuine.
" 18	"	37288	Jos. Masson, 808 Rue St. Valier, Quebec.	3 "	75	"	Mfr		1·4709		"		37288	"
" 18	"	37289	J. B. Geroux, 385 Rue St. Joseph, Quebec.	1 qt.	120	"	"		1·4707		"		37289	"
" 19	"	37290	W. Brunet & Cie, 139 Rue St. Joseph, Quebec.	3 bots	75	"	"		1 4707		"		37290	"
" 19	"	37291	L. E. Martel, 51 Rue St. Joseph, Quebec.	1 qt.	90	Comp. Lacroix & Roger, Quebec.	"		1·4705		"		37291	"

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

1913.																
Jan.	7	Olive Oil	51076	A. Poitrais, 17 Mount Royal Ave., E. Montreal.	3	bots	105	E. & A. Jonas, Kanart, France.			1·4704		Green		51076	Genuine.
"	7	"	51077	H. Gorson, 413 Colonial Ave. Montreal.	3	"	39		Jos. Edelberg, Montreal.		1·4737	112	Brown	Red	51077	Adulterated
"	7	"	51078	Albert Smith, 20 Prince Arthur St. W., Montreal.	3	"	60	Holbrook & Co., Nice, France.			1·4704		Green		51078	Genuine.
"	7	"	51079	"	3	"	75	H. J. Heinze & Co.		Heinze Pure Olive Oil.	1·4706		"		51079	"
"	7	"	51080	C. Soloman, 20 Vitre St., West, Montreal.	3	"	75			Superfine Olive Oil. Made in Italy.	1·4704		"		51080	"

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

1912.																
Dec.	23	Olive Oil	51667	Mundle & Percival Kemptville.	3	bots	30	E. Loubon, Nice	Unknown		1·1742	110	Brown	Deep Red	51667	Adulterated.
"	27	"	51668	La Pharmacie Moderne, Hull, P.Q.	24	oz..	120	Nat. Drug & Chem. Co., Ottawa.	Mfrs	"Olympia" Olive Oil. Warranted absolutely pure.	1·4704		Green		51668	Genuine.
"	30	"	51669	D. J. Stalker, Druggist, Ottawa	3	bots	105	"	"	"Na-Dru-Co." Olive Oil. Guaranteed absolutely pure.	1·4704		"		51669	"
"	31	"	51670	T. E. Macdonald, Somerset St., Ottawa.	3	"	75	H. J. Heinz, Pittsburg, Pa.	Mfr	"Heinz" pure Olive Oil.	1·4706		"		51670	"
1913.																
Jan.	2	"	51671	Calderone & Bossio, Bank St., Ottawa.	3	"	75	A. Calderone, 14 Via Mandria Termini Imerse Italy.	"		1·1698		"		51671	"

BULLETIN No. 256—OLIVE OIL.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.		Refractive Index at 15·5°C.	Iodine number.	Nitric Acid Colour test.	Halphen Colour test.		
DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.														
1912.														
Dec. 20	Olive Oil.. ...	51576	W. Stansfield, 379 Church St., Toronto.	3 bots	75	....	B. U. Delaphma & Co., Toronto	Labelled sublime extra double clarification. A. Gaillard & fils, Marseille, France	1·4704	.....	Green	.....	51576	Genuine.
" 20	"	51577	The Carter Drug Co., 697 Queen St. West, Toronto.	3 " .	30	....	Bottled by Vendors.	Labelled Huile D'Olive surfine clarifee.	1·4708	.....	" .	.....	51577	"
" 24	"	51578	A. G. T. Robinson, 898 Queen St., East, Toronto.	3 " .	75	....	W. G. Patriek & Co., Toronto.	Labelled Huile D'Olive Virge. Doublement clarifee B. Fonga, Bordeaux, France	1·4706	. .	" .	. . .	51578	"
" 27	"	51579	J. H. Sloan, 528 Yonge St., Toronto.	1 pt. .	50	....	Drug Trading Co., Ltd., Toronto.	....	1·4707	....	" .	....	51579	"
" 27	" .. .	51580	W. H. Worden, 618 Yonge St., Toronto.	3 " .	65	....	Lyman Bros. & Co., Ltd., Toronto.	....	1·4704	....	" .	....	51580	"

DISTRICT OF VANCOUVER—J. F. POWER, INSPECTOR.

1913.																		
Jan.	23	Olive Oil.....	38489	London Grocery Co., Fairview Branch, Vancouver, B.C.	3 bots	75	Crosse & Blackwell, London, Eng.	.....	Guaranteed genuine Olive Oil from the District of Lucca.	1	4703		Green		38489	Genuine.
"	23	" ...	38490	Gruchy & Carlaw, 5th Ave. & Granville, Vancouver B.C.	3 "	75	John Vittucci, Italy.	J. Vittucci, Vancouver, B.C.	This Oil is made from selected ripe Olives and is guaranteed to be absolutely pure.	1	4701				38490	"
"	23	"	38491	Harrison's Drug Store, 7th Ave & Granville Sts., Vancouver, B.C.	3 "	75	Unknown.....	Vendors.....	.....	1	4704		"		38491	"
"	23	"	38492	Broadway Pharmacy, Fairview, Vancouver, B.C.	3 "	75	Antoine Ginat....	H. Lyman & Sons, Montreal	Guaranteed pure Olive Oil.	1	4704	..	"		38492	"
"	23	" ...	38493	Burns & Cairns, Vanco'er Block, Vancouver, B.C.	3 "	105	Tessier Freres, Salon, France.	J. A. Teeporten, Vancouver, B.C.	Guaranteed pure...	1	4703	..	"		38493	"

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR.

Jan.	13	Olive Oil..	19282	Windsor Grocery Co., 817 Govt. St., Victoria, B.C.	1 pt...	50	American Olive Co., Los Angelus, Cal.	.....	American pure Olive Oil.	1	4705	.	Green ...	19282	Genuine
"	13	...	49285	The West End Grocery Co., Ltd., 1002 Govt. St., Victoria, B.C.	1 "	75	.....	John Vittucci & Co., Vancouver & Seattle.	"Map of Italy" Brand.	1	4704	.....		49285	"
"	14	" ...	19288	Dixi H. Ross & Co., 1317 Govt. St., Victoria, B.C.	2½ "	130	J. C. Kubias, Redlands, Cal.		"Bohemian Club" Brand.	1	4709		"	19288	"
"	14	" .	49289	"	1 "	125	Cresca Co., Bordeaux, France.		"Pinard" Brand Olive Oil	1	4704		" . .	19289	"
"	14	" ...	19292	Harrison & McDonald, 1218 Douglas St., Victoria, B.C.	3 bots	70	W. G. Patrick & Co., Vancouver, B.C.		.....	1	4705	.	" ...	49292	"
"	14	"	49293	"	1 pt..	50	L. Noel & Sons, Ltd., London, Eng.	....	Finest Lucca Oil..	1	4704		"	49293	"

APPENDIX U.

BULLETIN No. 257—MILK POWDERS AND CONDENSED MILK.

OTTAWA, March 31, 1913.

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue.

SIR,—I beg to submit herewith a report dealing with thirty (30) samples sold as condensed milks—of which number seven (7) are condensed without sugar, and should be offered as evaporated milk (see G. 934); and fifteen (15) samples of milk powders.

Condensed milk is required by Order in Council of November 3, 1910, to meet the following requirements:—

'Condensed milk is milk from which a considerable portion of water has been evaporated, and to which sugar has been added. It contains not less than 28 per cent of milk solids, and not less than 7·7 per cent of milk fat.'

No. 49150 contains only traces of fat; and is made from skimmed milk.

No. 38335 contains only 3·85 per cent of fat, and is made from milk which has been partly skimmed.

The labels of these samples claim that they are genuine whole milk products. Hence they must be regarded as adulterated under the Act.

In three samples (Nos. 49146-7-8) the fat is slightly below standard. The deficiencies, however, are not great, and may not exceed such natural variations as season and locality introduce. In eight (8) samples the fat varies from 5·80 to 7·12 per cent. These must be regarded as adulterated under the Act, although they represent brands which generally give a good account of themselves. It is to be noted that, even within the limits of the present collection, the average results for such of these brands as are represented by several samples is creditable.

Thus, Borden's Condensed Milk is represented by the following:—

Sample No.	49641	Fat:	8·08 per cent.
"	49642	"	8·85 "
"	49656	"	6·35 "
"	49657	"	9·05 "
"	49668	"	7·10 "
"	49669	"	6·95 "
"	38331	"	8·40 "
"	38332	"	9·72 "
"	49145	"	9·05 "
"	49147	"	7·55 "

Mean of 10 samples—8·11 per cent.

The Reindeer Brand is represented by:—

Sample No.	49649	Fat:	6·80 per cent.
"	49667	"	7·87 "
"	38336	"	7·12 "
"	49146	"	7·42 "

Mean for 4 samples—7·30 per cent.

The St. Charles Condensed Milk shows as follows:—

Sample No.	49655	Fat:	7·90 per cent.
"	49666	"	8·00 "
"	38334	"	7·05 "
"	49148	"	7·38 "
"	49153	"	7·82 "

Mean of 5 samples—7·63 per cent.

Summary of condensed milk samples:—

Meet requirements in full	10	samples.
Meet requirements, nearly	3	"
Below standard more than 0·5 per cent	8	"
Adulterated as skimmed	2	"
Total	23	"

Evaporated milk is defined as follows:—

'Is milk from which a considerable portion of water has been evaporated, and contains not less than 26 per cent of milk solids, and not less than 7·20 per cent of milk fat.'

Out of seven (7) samples, only one fails to meet the required standard, viz.: No. 38333, which falls 0·70 too low in fat, and 2·23 too low in milk solids.

Two other samples (38338 anl 49151) are technically adulterated as being labelled 'Cream.' The explanatory words 'An unsweetened condensed milk,' appear in small type upon the label, but are comparatively inconspicuous.

Our standards require cream to contain at least 18 per cent of milk fat; and condensed cream to contain at least 25 per cent of fat (G. 934).

Milk powder is defined by standards published in December, 1910, (see G. 934) as follows:—

The soluble powder product made from milk, and contains, unless otherwise specified, not less than ninety-five (95) per cent of milk solids, and not less than twenty-six (26) per cent of milk fat.

All samples obtained by our inspectors appear to be the products of one manufacturer, and to be sold under the names *Trumilk* and *Milk Stock*, the first being a whole milk product; the second a skimmed milk. A single sample (No. 44165) sold as modified milk powder, represents an intermediate product, the result of drying a partly skimmed milk.

Ten samples sold as Trumilk and guaranteed as whole milk powders averages 26·76 per cent of fat; and vary among themselves as follows:—28·10, 27·61, 27·53, 27·48, 27·36, 27·23, 26·84, 26·61, 25·66, 23·22. With exception of the last two samples they meet the requirements of our standard; and the deficiency in the ninth sample is less than one-half of one per cent.

One sample only (No. 38326) falls more than one per cent below the standard, (deficiency: 2·78 per cent) and is evidently manufacturel from a milk of inferior quality.

Milk stock (skimmed milk) appears to be of very uniform quality, and is true to the claims made for it.

The collection herein was made in April and May of last year, and should have been reported long ago.

Press of other work caused it to be delayed, in favour of work which could not so well be held over.

I beg to recommend publication of this report as Bulletin No. 257.

I have the honour to be, Sir,

Your obedient servant,

A. McGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
						DISTRICT OF NELSON—		
1912.								
April 18	Condensed Milk.	49641	Cooper & Christine, Vernon, B.C.	3 tins.	45	Borden Condensed Milk Co., Tillsonburg.		
" 18	"	49642	"	3 "	45	"		
" 18	"	49649	W. H. Smith, Vernon, B.C.	3 "	45	Reindeer, Ltd., Truro, N.S.		
" 18	"	49655	W. R. Megaw, Vernon, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.		
" 18	"	49656	"	3 "	40	Borden's Condensed Milk Co., Tillsonb'g		
" 18	"	49657	"	3 "	45	"		
May 2	"	49666	Hudsons Bay Co., Nelson, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.		
" 2	"	49667	"	3 "	45	Reindeer, Ltd., Truro, N.S.		
" 2	"	49668	Bell Trading Co., Nelson, B.C.	3 "	45	Borden's Condensed Milk Co., Tillsonburg.		
" 2	"	49669	"	3 "	45	"		
						DISTRICT OF VANCOUVER—		
May 1	Condensed Milk.	38331	Woodward Dept. Stores, Vancouver, B.C.	3 tins.	40	Borden & Co., New York,		"Gold Seal" Brand prepared from pure cream milk.
" 1	"	38332	Dom. Grocery, Vancouver, B.C.	3 "	45	"		"Eagle" Brand Condensed milk combined with best refined sugar
" 1	"	38333	F. Filion, Vancouver, B.C.	3 "	15	St. Charles Milk Co., Ingersoll.		Prepared from pure rich milk only.
" 1	"	38334	W. Clark, Vancouver, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.		Prepared from finest milk and best granulated sugar.
" 1	"	38335	A. C. Barbig, Fairview, Vancouver.	3 "	45	J. Malcolm, Son, St. Georges, Ont.		Every can guaranteed until used.
" 6	"	38336	J. S. Hirst, Vancouver, B.C.	3 "	45	Reindeer Ltd., Truro, N.S.		Every can guaranteed.
" 6	"	38337	D. B. Irwin, Vancouver, B.C.	3 "	15	Dom. Canners Ltd., Hamilton.		"Quaker" Brand.

SESSIONAL PAPER No. 14

CONDENSED MILK.

Results of Analysis.

Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc. warm water.	Calculated on 9 basis.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
							Concentration.	Fat in original bulk.		
THOS. PARKER, INSPECTOR.										
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.		
1·3181	25·45	74·55	1·80	8·05	..	59·50	.....		49641	Meets standard.
1·3129	26·10	73·90	1·66	8·85	.	56·90		...	49642	"
1·3108	30·53	69·47	1·82	6·80	..	56·00			49649	Fat too low.
	.	...		7·90	.	.			49655	Meets standard in fat.
1·3123	27·50	72·50	1·75	6·35	....	58·20	.		49656	Fat too low.
1·3009	26·80	73·20	1·61	9·05		57·10	.	..	49657	Meets standard.
1·3080	26·90	73·10	1·87	8·00		57·10		.	49666	"
1·3076	26·75	73·25	1·66	7·87		58·92	....		49667	"
	.....	.		7·10	..	.....			49668	Fat too low.
	.....		..	6·95			....		49669	"
J. F. POWER, INSPECTOR.										
1·3129	26·45	73·55	1·72	8·40	.	58·50		.	38331	Meets standard.
1·2960	27·28	72·72	1·86	9·72	.	55·62	...	....	38332	"
1·0687	76·33	23·77	1·50	6·50	9·93		1·99	3·38	38333	Fat too low. Non-sugared.
1·2994	29·58	70·42	1·88	7·05	...	56·45		....	38334	Fat too low.
1·3128	30·40	69·60	1·70	3·85		58·70	.	.	38335	Partially skimmed milk adulterated.
1·3044	29·80	70·20	1·58	7·12		56·40	...	...	38336	Fat too low.
1·0748	71·30	28·70	1·85	7·80	10·07	...	2·42	3·36	38337	Meets standard. Non sugared

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher, as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of opinion).
						DISTRICT OF VANCOUVER—		
1912.								
May 6	Condensed Milk.	38338	T. W. Turner, Vancouver, B.C.	3 tins.	45	Pacific Coast Condensing Co., Seattle, Wash.		We guarantee this can containing no substance but fresh pure sweet milk.
" 6	"	38339	Webber & Webber, Vancouver, B.C.	3 "	25	Canada First Mfg. Co.		Every can guaranteed.
" 6	"	38340	A. & C. Grocery, Vancouver, B.C.	3 "	30	B. C. Milk Products Co., New Westminister, B.C.		Complies with all requirements of Pur Food Laws.
						DISTRICT OF VICTORIA—		
April 23	Condensed Milk.	49145	Windsor Grocery Co., Ltd., Victoria, B.C.	3 tins	45	Borden's Condensed Milk Co., New York		"Gold Seal".
" 23	"	49146	"	3 "	45	Reindeer, Ltd., Truro, N.S.		"Reindeer".
" 24	"	49147	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	45	Borden's Condensed Milk Co., New York		"Eagle".
" 24	"	49148	"	3 "	35	St. Charles Condensing Co., Ingersoll.		"Purity".
" 24	"	49149	"	3 "	35	Aylmer Condensed Milk Co., Aylmer, Ont.		"Canada First".
" 24	"	49150	Harrison & McDonald, Victoria, B.C.	3 "	30		W. O. Wallace, Victoria, B.C.	"Coach".
" 25	"	49151	W. B. Hall, Victoria, B.C.	3 "	25	Pacific Coast Condensed Milk Co., Seattle, Wash.		"Carnation".
" 25	"	49152	D. H. Ross & Co., Victoria, B.C.	3 "	40	Truro Condensed Milk Co., Truro, N.S.		"Mayflower".
" 25	"	49153	Copas & Young, Victoria, B.C.	3 "	40	St. Charles Condensing Co., Ingersoll.		"Purity".
" 25	"	49154	E. G. Bailey, Victoria, B.C.	3 "	15	Borden's Condensed Milk Co., New York		"Peerless".

SESSIONAL PAPER No. 14

CONDENSED MILK.

Results of Analysis.

Density.	Water.	Total Solids.	Ash.	Fat.	Milk Sugar.	Loss to 500 cc. warm water.	Calculated on 9% basis.		No. of Sample	Remarks and Opinion of the Chief Analyst.
							Concentration.	Fat in original milk.		

Concluded.

	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
1·0587	74·98	25·02	1·63	8·35	9·78	..	1·95	4·50	38338	Adulterated, in being labelled Cream. Is a good evaporated milk.
1·0537	74·13	25·87	1·65	7·35	10·49		2·11	3·57	38339	Meets standard. Non-sugared.
1·0701	70·57	29·43	1·39	7·80	9·01		2·40	3·24	38340	"

D. O'SULLIVAN, INSPECTOR.

1·2992	27·15	72·85	1·86	9·05	..	55·90	.....	.....	49145	Meets standard.
1·3049	29·03	70·97	1·75	7·42	.	57·22	.....	.....	49146	Slightly below standard in fat pass.
1·3158	26·93	73·07	1·52	7·55	.	59·22	.....	.....	49147	" "
1·3130	27·62	72·38	1·70	7·38	.....	58·92	.....	.....	49148	" " "
1·3081	28·30	71·70	1·61	5·80	... .	57·85	.....	.....	49149	Fat too low. Adulterated.
1·3644	30·00	70·00	1·72	traces	.....	63·15	.....	.....	49150	Adulterated.
1·0594	74·38	25·62	1·42	8·95	9·83	.....	2·01	4·84	49151	Adulterated, in being labelled Cream. Is a good quality milk.
1·3053	28·60	71·40	1·61	6·50		56·35	.....	.....	49152	Fat too low. Adulterated.
1·2986	29·50	70·50	1·88	7·82	.....	54·20	.....	.....	49153	Meets standard.
1·0643	72·60	27·40	1·65	7·90	10·80	... ..	2·23	3·33	49154	" non-sugared.

Date of Collection.	Nature of Sample.	No. of Samples.	Name and Address of Vendor.	Cost. Quantity.	Cost. Cents.	Name and Address of Manufacturer or Furnisher as given by the Vendor. Manufacturer.	Furnisher.	Inspector's Report. (Is not an expression of Opinion).
DISTRICT OF MANITOBA—								
1912.								
April 16	Trumilk...	48646	Duncan & Hunter, St. James.	3 tins.	45	Canadian Milk Products, Ltd., Toronto,	Unknown	
" 17	" ...	48647	W. A. Bartram, Portage Ave., Winnipeg.	3 "	38	" "	"	
" 17	" ...	48648	J. Paterson, Portage Ave., Winnipeg.	3 "	38	" "	"	
" 18	" ...	48649	A. Hendry, Portage Ave., Winnipeg.	3 "	60	" "	"	
" 18	" ..	48650	R. F. Graham, Portage Ave., Winnipeg.	3 "	45	" "	"	
DISTRICT OF CALGARY—								
May 7	Milk Powder.	44165	Jackson & Co., Lethbridge.	3 tins.	75	Canadian Milk Products, Ltd., Toronto.		
" 10	Milk Stock	44166	Donnelly Watson & Browne Co., Ltd., Calgary.	3 "	30	" "		Milk Stock...
" 10	Trumilk...	44167	" " ..	3 "	30	" "		Trumilk...
" 10	Milk Stock	44168	John Irwin Co., Ltd., Calgary.	3 "	40	" "		Milk Stock...
" 10	Trumilk...	44169	" " ..	3 "	40	" "		Trumilk...
DISTRICT OF NELSON—								
April 18	Milk Powder.	49654	W. R. Megaw. ...	3 tins.	45	Canadian Milk Products, Ltd., Toronto.		

SESSIONAL PAPER No. 14

MILK POWDERS.

Results of Analysis.

Moisture.	Total Solids.	Ash.	Fat.	Milk Sugar.	Proteids.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.		
V. C. LARIVIERE, INSPECTOR.							
1·93	98·07	5·65	27·53	36·97	27·92	48646	Whole milk. Genuine.
2·04	97·96	5·89	27·18	36·55	28·04	48647	" "
1·81	98·19	6·28	26·84	33·40	31·67	18648	" "
2·13	97·87	5·75	26·61	33·20	32·21	48649	" "
1·14	98·96	5·69	27·23	34·30	31·64	48650	" "
R. W. FLETCHER, INSPECTOR.							
2·34	97·66	7·05	11·28	40·34	38·99	44165	Modified milk. Partially skimmed. Genuine.
4·64	95·36	7·21	0·91	45·55	41·69	44166	Separated milk. Genuine.
1·73	98·27	5·79	27·36	36·87	28·25	44167	Whole milk. Genuine.
4·87	95·13	7·28	0·92	44·67	42·24	44168	Separated milk. Genuine.
1·98	98·02	5·90	27·61	33·67	30·84	44169	Whole milk. Genuine.
THOS. PARKER, INSPECTOR							
2·98	97·02	5·37	28·10	33·75	29·79	49654	Whole milk. Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of Opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
			DISTRICT OF VANCOUVER—					
1912.								
May 1	Milk Powder.	38326	H. A. Edgett, Vancouver, B.C.	3 tins.	45	Canadian Milk Products, Ltd., Toronto.	....	Trumilk contains no sugar preservatives, chemicals or adulterations of any kind.
" 1	Milk Powder.	38327	London Grocery Co., Vancouver, B.C.	3 "	45	" "	.....	Milkstock contains no sugar preservatives, chemicals or adulterations of any kind.
			DISTRICT OF VICTORIA—					
April 24	Trumilk...	49155	The West End Grocery Co., Ltd., Victoria, B.C.	3 tins.	45	Canadian Milk Products, Ltd., Toronto.	.....	.....
" 24	Milk Stock	49156	Harrison & McDonald, Victoria, B.C.	3 "	40	" "	....	....

SESSIONAL PAPER No. 14

MILK POWDERS.

Results of Analysis.							
Moisture.	Total Solids.	Ash.	Fat.	Milk Sugar.	Proteids.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
J. F. POWER, INSPECTOR.							
p.c.	p.c.	p.c	p.c	p.c.	p.c		
1 55	98·45	5 91	23 22	36·55	32 64	38326	Whole milk. Slightly below standard in fat.
5 27	94 45	7 37	0 96	45 05	41 35	38327	Separated milk. Genuine.
D. O'SULLIVAN, INSPECTOR.							
3 96	96·04	5 64	25 66	31 32	31 64	19155	Whole milk. Genuine.
5 43	94 57	7 37	1·32	44 67	41 21	19156	Separated milk. Genuine

REPORT

OF THE

MINISTER OF AGRICULTURE

FOR THE

DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1913

PRINTED BY ORDER OF PARLIAMENT

OTTAWA
PRINTED BY C. H. PARMELEE, PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1913

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REPORT

OF THE

MINISTER OF AGRICULTURE

1912-13

To Field Marshal, His Royal Highness Prince Arthur William Patrick Albert, Duke of Connaught and of Strathearn, Earl of Sussex (in the Peerage of the United Kingdom), Prince of the United Kingdom of Great Britain and Ireland, Duke of Saxony, Prince of Saxe-Coburg and Gotha; Knight of the Most Noble Order of the Garter; Knight of the Most Ancient and Most Noble Order of the Thistle; Knight of the Most Illustrious Order of Saint Patrick; One of His Majesty's Most Honourable Privy Council; Great Master of the Most Honourable Order of the Bath; Knight Grand Commander of the Most Exalted Order of the Star of India; Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George; Knight Grand Commander of the Most Eminent Order of the Indian Empire; Knight Grand Cross of the Royal Victorian Order; Personal Aide-de-Camp to His Majesty the King; Governor General and Commander-in-Chief of the Dominion of Canada.

May it Please Your Royal Highness:

I have the honour to submit to Your Royal Highness a report of the Department of Agriculture for the fiscal year ended March 31, 1913:—

I.—GENERAL REMARKS.

The work of the department has been carried on efficiently, and a synopsis of the operations of the various branches comprised therein is laid before Your Royal Highness under their respective headings.

There has been no legislation affecting the department during this period.

By an Order in Council of date 19th day of April, 1912, under the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction of spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were amended as follows:—

Whereas in view of the serious prevalence of the Mediterranean Fruit Fly (*Ceratitis capitata*) in the Hawaiian Islands it is advisable and in the public interest that fruit and vegetables from the Hawaiian Islands be prohibited from entering Canada;

Therefore, His Royal Highness the Governor General in Council is pleased to order as follows:—

The Mediterranean Fruit Fly (*Ceratitis capitata*) is hereby scheduled and added to the list of destructive insects and pests as set forth in Section 12 of the Regulations under 'The Destructive Insect and Pest Act' as established by Order in Council, dated 27th February, 1911.

His Royal Highness the Governor General in Council, in virtue of the provisions of clause (a) of section 4, chapter 31, 9-10 Edward VII, is further pleased to order as follows:—

The following section is hereby added to the Regulations under the above named Act, established by Order in Council, dated 27th February, 1911.

Section 16, 'The importation of all non-canned fruits, plants or portions of plants, or other vegetation or vegetable matter from the Hawaiian Islands is prohibited.'

Vide Canada Gazette, Vol. XLV, pp. 3961.

By an Order in Council of date 19th day of April, 1912, under the provisions of Chapter 31, 9-10 Edward VII, intituled, 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were further amended as follows:—

Whereas, owing to the consolidation of the Federal and Provincial work of inspecting and fumigating imports of nursery stock, &c., at Vancouver, it is necessary to make certain amendments in the Regulations under 'The Destructive Insect and Pest Act';

Therefore, His Royal Highness the Governor General in Council is pleased to hereby order as follows:

Sections 5 and 9 of the Regulations established by Order in Council, dated 27th February, 1911, are rescinded and the following substituted therefor:—

Section 5. 'All persons importing nursery stock, except such stock as is exempt from fumigation and inspection under Section 3 of these Regulations, shall give notice to the Dominion Entomologist, Central Experimental Farm, Ottawa, within five days of despatching the order for the same. This notice shall include a detailed statement of the nature, quantity and the points of origin and destination of the stock, the name of the consignor and the consignee, and the name of the transportation company or companies carrying the stock. A second notification shall be sent to the Dominion Entomologist by the importer immediately on the arrival of the stock at its final destination. Notice shall also be given by all transportation companies, Custom House brokers, and other persons importing or bringing into Canada nursery stock that is subject to inspection as hereinafter provided, immediately such a consignment is received by them.

This Regulation shall not apply to nursery stock imported into the province of British Columbia by residents in that province.

Section 9. 'Compensation not exceeding two-thirds of the value as assessed by the Inspector, of the vegetation or vegetable matter or containers thereof destroyed by the instructions of an Inspector, shall be granted by the Governor in Council upon the recommendation of the Minister, except in cases where these Regulations are carried out under the direction of the government of a province not granting compensation.'

Vide *Canada Gazette,* Vol. XLV, pp. 3961.

By Proclamation under date the 2nd day of May, 1912, under the provisions of Section 3 of the Quarantine Act, Chapter 74, R.S.C., 1906, the Regulations established by Order in Council of date the 12th day of June, 1907, were amended by adding the following words, after sub-clause (c) designating the Quarantine Stations in the province of Nova Scotia:—

'(d) Digby, including the Annapolis Basin,' and by expunging the words in sub-clause (e) designating the Quarantine Stations in the province of British Columbia and substituting the following words in lieu thereof: —

'(e) Prince Rupert and Harbour.'

Vide *Canada Gazette*, Vol. XLV, pp. 4277.

By an Order in Council of date 9th day of May, 1912, under the provisions of Chapter 31, 9-10, Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were further amended as follows:—

His Royal Highness the Governor General in Council is pleased to order that the Regulations under 'The Destructive Insect and Pest Act' shall be and the same are hereby amended as follows:—

Section 9 of said Regulations as amended by Order in Council of 19th April, 1912, is further amended by adding thereto the following words, 'or in the case of potatoes or potato crops.'

Section 12 of said Regulations is amended by striking out the line thereof reading as follows:—

'Parasitic diseases affecting potatoes externally or internally'

and substituting therefor 'Corky Scab' (Spongospora subterranea) (Johns.)

The following sections are hereby added to the said Regulations:—

'10*a*.—It shall be illegal to sell, offer for sale, dispose of in any way, receive or use, for seed purposes, any potatoes imported from Europe.'

'10*b*.—Every person using for seed other potatoes than such as shall have been raised by himself must obtain, preserve and exhibit on demand, previous to planting, a certificate from the seller or his agent stating that the potatoes to be used for seed have not been imported from Europe.'

Vide *Canada Gazette*, Vol. XLV, pp. 4167.

By an Order in Council dated the 27th July, 1912, Frederick Torrance, B.A., D.V.S., was appointed to the position of Veterinary Director General and Live Stock Commissioner in the Department of Agriculture from the 1st day of August, 1912.

By an Order in Council of date of 19th day of September, 1912, under the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were further amended as follows:—

Whereas it is deemed advisable and in the public interest that the importation of potatoes from Europe should be prohibited:—

Therefore the Governor General is pleased to order and it is hereby ordered as follows:—

Section 13 of the Regulations established by Order in Council of 27th February, 1911, in accordance with the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' is hereby amended by inserting after the word "from" in the first line thereof the word "Europe," so as to read:—

'13. The importation of potatoes into Canada from Europe, Newfoundland or the islands of St. Pierre or Miquelon is prohibited.'

Sections 10*a* and 10*b* of the Regulations established under Order in Council of 9th May, 1912, are hereby repealed.

Vide *Canada Gazette,* Vol. XLVI, pp. 977.

By an Order in Council under date 16th day of November, 1912, under the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the regulations established thereunder were further amended as follows:—

His Royal Highness the Governor General in Council is pleased to order as follows:—

Section 12 of the Regulations established under 'The Destructive Insect and Pest Act' is hereby amended by striking out the following words:—

'Corky Scab' (Spongospora subterranea) (Johns), 2.

Vide *Canada Gazette,* Vol. XLVI, pp 1742.

By an Order in Council approved by his Royal Highness on the 21st November, 1912, the resignation of Frederick Torrance, B.A., D.V.S., as Live Stock Commissioner in the Department of Agriculture was accepted to take effect from the 30th November, 1912.

By an Order in Council approved by His Royal Highness, under date 21st November, 1912, Mr. John Bright, of Myrtle, Ont., was appointed to the position of Live Stock Commissioner in the Department of Agriculture, from the 1st of December, 1912.

By an Order in Council under date 10th day of December, 1912, under the provisions of Chapter 75, R.S.C., 1906, intituled 'An Act respecting Infectious or Contagious Diseases affecting Animals,' the Regulations established thereunder were further amended as follows:—

Whereas the government of the province of British Columbia is carrying on an active campaign against Bovine Tuberculosis:

And whereas the government of the said province has requested the federal government to take action to prevent the entrance into that province from other parts of the Dominion, of cattle unless they have passed the tuberculin test:

And whereas it does not appear desirable to comply with the request in full, but the Minister of Agriculture is of the opinion that it would be desirable to restrict all pure bred cattle from entering that province if not accompanied by a satisfactory tuberculin test certificate:

Therefore His Royal Highness the Governor General in Council is pleased, in virtue of the provisions of Section 28 of The Animal Contagious Diseases Act, and with a view to assisting the province of British Columbia in its endeavours to stamp out Bovine Tuberculosis in that province, to Order that the Quarantine Regulations approved by Order in Council of the 30th November, 1909, and amended by Order in Council of the 19th August, 1911, shall be and the same are hereby further amended by inserting the following section after section 82 of the above mentioned Regulations:—

'82½. No common carrier shall receive for shipment or carry into the province of British Columbia, any registered pure bred cattle, unless the same are accompanied by a certificate signed by an inspector setting forth that within thirty days prior to the date of shipment they have been submitted to and have passed the tuberculin test."

By an Order in Council under date of 10th December, 1912, under the provisions of Chapter 31, 9-10, Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the regulations established thereunder were further amended as follows:—

Whereas it is deemed advisable and in the pubic interest that immediate steps should be taken to protect Canada from the spread of Gipsy Moth at present prevalent in certain parts of the United States.—

Therefore the Governor General in Council, in pursuance of the provisions of Chapter 31, 9-10 Edward VII, intituled 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' is pleased to order and it is hereby ordered as follows:—

The following Regulation is hereby added to the Regulations under the Destructive Insect and Pest Act established by Order in Council of 27th February, 1911:—

'No. 17. Forest plant products including logs, tan bark, posts, poles, railroad ties, cordwood and lumber originating in any one of the States of Maine, New Hampshire, Vermont, Massachusetts, Connecticut and Rhode Island, six of the United States of America, shall not be admitted into Canada unless such forest plant products shall be accompanied by a certificate showing that they have been inspected by the United States Department of Agriculture and found free from the Gipsy Moth. Each Shipment shall be accompanied by such an inspection certificate and the certificate shall accompany the bill of lading, way bills or other memoranda pertaining to such shipments.

The importation of coniferous trees such as spruce, fir, hemlock, pine, juniper (cedar) and 'arbor vitæ' (white cedar) or foliage thereof, and decorative plants such as holly and laurel known and described as 'Christmas greens or greenery', from the States of Vermont, Maine, Massachusetts, New Hampshire, Connecticut and Rhode Island is prohibited.'

Vide *Canada Gazette*, Vol. XLVI, pp. 2080.

By an Order in Council under date 4th day of January, 1913, under provision of Chapter 75 R.S.C. 1906, intituled 'An Act respecting Infectious or Contagious Diseases affecting Animals,' the Regulations established thereunder were further amended as follows:—

Whereas it is deemed advisable and in the public interest that the importation, manufacture, or sale of Hog Cholera serum and virus be prohibited in the Dominion of Canada,—

Therefore His Royal Highness the Governor General in Council, in virtue of the provisions of clause (I) of section 28 of chapter 75 Revised Statutes of Canada, 1906, is pleased to order as follows:—

The Quarantine Regulations established by Order in Council of the 30th November, 1909, as amended by Order in Council of the 19th August, 1911, are hereby further amended by adding the following section thereto:—

88½. The use of Hog Cholera serum or virus, being considered a source of danger, the importation, manufacture, sale or use of such serum or virus, is prohibited.

Vide *Canada Gazette,* Vol. XLVI, pp. 2466.

By an Order in Council under date of 25th day of February, 1913, under the provisions of Chapter 31, 9-10 Edward VII, intituled, 'An Act to prevent the introduction or spreading of insects, pests and diseases destructive to vegetation,' the Regulations established thereunder were further amended as follows:—

Whereas, in order to protect Canada from the spread of the Gypsy Moth prevalent in certain parts of the United States of America, the Regulations under the Destructive Insect and Pest Act, established by Order in Council, dated 27th February, 1911, were amended, by Order in Council, dated 10th December, 1912, by adding thereto a regulation numbered '17.'

And whereas the Dominion Entomologist has reported that he is of the opinion that until the Gypsy Moth actually reaches and is found to occur in the State of Vermont, it is unnecessary that that State should be scheduled,—

Therefore the Governor General is pleased to order as follows:—

Regulation No. 17 under the Destructive Insect and Pest Act, established by Order in Council, dated 10th December, 1912, is hereby amended by expunging the word 'Vermont' therefrom.

Vide *Canada Gazette,* Vol. XLVI, pp. 3147.

As intimated in my Report of last year the Festival of Empire and Imperial Exhibition held at the Crystal Palace, London, England, closed on the 31st of October, 1911. However, before dismantling the Canadian Building, Canada was asked whether the Government would like for the year 1912 to maintain their building in the Crystal Palace grounds. This was thought advisable, and the Canadian Exhibit was continued until the end of October, 1912, when the staff was required in connection with the preparation of Canada's Exhibit at the International Exhibition to be held in Ghent, Belgium, in 1913.

It having been decided that Canada would accept the invitation of the Belgian Government to be represented at the International Exhibition to be held in Ghent, Belgium, in 1913, Mr. William Hutchison, the Permanent Canadian Exhibition Commissioner has been busily engaged with his staff in making the necessary preparations for Canada's participation at the above named Exhibition, which is to open on the 26th April, 1913.

SESSIONAL PAPER No. 15

A Report from the Canadian Exhibition Commissioner for the fiscal year ended 31st March, 1913, will be found as an appendix hereto. (See Appendix No. 18.)

The Seventh International Congress against Tuberculosis was held in Rome, Italy, commencing on the 14th April last. Canada was represented thereat by Dr. Severin Lachapelle, of Montreal, P.Q.; Doctor D. A. Stewart, of Ninette, Manitoba; Doctor A. Rousseau, of Quebec, P.Q.; Doctor Arthur J. Richer, of St. Agathe, P.Q.; and Professor J. J. MacKenzie, of Toronto University, Toronto, Ont.

A report thereon has been received and is appended hereto. (See Appendix No. 19.)

II. ARTS AND AGRICULTURE.

DAIRY AND COLD STORAGE BRANCH.

The Divisions of Dairying, Fruit, Extension of Markets and Cold Storage are grouped together and form the Dairy and Cold Storage Branch, of which the Dairy and Cold Storage Commissioner is the Chief Officer.

Appreciating the importance of the different lines of agricultural production which the work of the Dairy and Cold Storage Branch touches, I have deemed it advisable to arrange for a substantial increase in the appropriations for this branch. An increase was made in 1912-13, and a further increase is asked for in the estimates for 1913-14.

With more funds available the work of the Branch has naturally expanded, and will continue to do so. New lines of work have been taken up, and a large number of new employees have been added to the outside staff during the past year.

THE DAIRYING SEASON OF 1912.

The prevailing weather during the summer of 1912, with a rainfall above normal and with many cloudy days, was in marked contrast to that of 1911. Weather conditions affect the production of milk, and on the whole the season of 1912 was very favourable.

The ruling prices for both butter and cheese were higher than during the previous year. This is especially true with regard to butter.

THE EXPORT TRADE.

There was a decrease in both quantities and values of dairy produce exported during the year. Full particulars will be found in the Report of the Dairy and Cold Storage Commissioner.

The most notable feature of the export trade for the year is found in the fact that for the first time in over 60 years Canada has shipped no butter to the United Kingdom. The total exports amounted to approximately half a million pounds, which consisted chiefly of tinned butter to the West Indies and dairy butter to the United States.

There has been a much smaller export of cream to the United States than during the previous year, on account of the high price of butter in Canada.

IMPORTS OF BUTTER.

Comparatively small quantities of butter have been imported into Canada during periods of temporary scarcity for many years. During recent years supplies of New Zealand butter have been imported at Vancouver, direct from New Zealand, in increasing quantities. Small quantities have also reached Canada via London and Montreal.

The past year has, however, seen an enormous increase in these shipments, and during the twelve months ended November 30th last, the imports reached a total of 6,694,722 pounds, mostly from New Zealand.

THE HOME TRADE.

The decline in our export trade and the increase in the imports of butter does not indicate any decline in the dairying industry. The fact is evident when the various sources of information are considered that the production of milk in Canada is larger at the present time than it ever was in the history of the country; and that there has been a constant increase in production since the exports began to decline, the difference being accounted for by the increased home consumption. There is a large per capita increase in the consumption of milk, cream and ice cream in addition to the increase due to greater population.

THE NEW DAIRY STATIONS.

The new dairy stations which were mentioned in my last report were completed during the past summer and are now in full operation. The station at Finch consists of a combined creamery and cheese factory with facilities for carrying on experimental work. It will be operated as a cheese factory during the summer months and as a creamery for the balance of the year. Competent investigators are to be employed who will carry on experiments relating to the manufacture of butter and cheese and the handling of milk and cream.

The Brome Dairy Station will be operated as a creamery the year around with two tributary skimming stations. Both the Finch and Brome stations have been fitted with up-to-date apparatus and machinery to provide the necessary facilities for conducting experiments as well as for the manufacture of butter and cheese in the most approved manner.

It is expected that the revenue to be derived from the manufacture of butter and cheese at these stations will pay all the expenses of operation except that which is incurred on experimental account.

The erection of these two stations must not be taken to mean the inauguration of a policy to operate cheese factories and creameries generally. The plans and specifications of both establishments are available to those who apply for them, and the results of the experiments conducted will be published for general distribution. Cheese factory and creamery owners and the patrons thereof in all parts of the country will receive as much benefit as those in the immediate vicinity.

COW TESTING.

This work which has for its object the improvement of the dairy herds of Canada has been continued and extended during the past year. Eight new Dairy Record Centres were established, making 14 in operation. This number will be added to during the coming year. The Department through the Dairy and Cold Storage Commissioner continues to furnish to all farmers who apply for them, free of charge, the blank forms which are used in keeping records of individual cows. I am informed that the demand for these record forms has increased enormously during the past year. This is a very important result of the propaganda which has been carried on for some years past. Hundreds of farmers throughout the country are making tests of their cows on their own account.

EXTENSION OF MARKETS DIVISION

ICED CAR SERVICES

The special refrigerator car services for the carriage of butter in small quantities and for the carriage of cheese and fruit in carloads was arranged for with the railway companies as in former years. This relates more particularly to the produce intended for export. The inspection of refrigerator car services which is assigned to the Extension of Markets Division was carried out as usual.

CARGO INSPECTION.

The cargo inspection service which has been fully explained in previous reports was extended during the past season by sending an inspector to Portland, Maine, after the close of navigation at the port of Montreal; two inspectors were employed at Halifax, one at Quebec and five at Montreal during the season of navigation.

THERMOGRAPH RECORDS.

The thermograph records from the chambers and holds of steamers carrying produce which are obtained through the agency of the cargo inspectors at Canadian and British ports continue to be a useful record in the transportation of perishable products. Copies of these temperature records are given to the agents of the shipping companies, a copy of each record is posted in the Exchange Room at the Board of Trade, Montreal, another copy is given to the engineer on the ship and copies are sent to any shipper who is interested in the cargo which the record relates to.

This Division also makes a study of prices for farm products and keeps a record of the principal Canadian and United States markets for easy reference.

THE FRUIT DIVISION.

The season of 1912 was notable for the extremely heavy crop of apples in British Columbia and the Pacific Coast States, which resulted in a keen competition in the markets of the prairie provinces, and emphasized the necessity for a thorough organization on the part of Canadian growers for the purpose of controlling the selling end of their business.

FRUIT INSPECTION.

The administration of Part IX. of the Inspection and Sale Act, commonly known as the Fruit Marks Act, is assigned to and is an important part of the work of the Fruit Division.

The fruit inspection service was thoroughly reorganized and considerably extended during the past season. Five inspectorates were established as follows:—

District No. 1—Maritime Provinces.
" " 2—Province of Quebec and Eastern Ontario.
" " 3—Western Ontario.
" " 4—Prairie Provinces.
" " 5—Province of British Columbia.

The office of Chief Inspector was created and a Chief Inspector was assigned to each of the districts named.

For the season of 1912, 48 inspectors were employed, including 5 chief inspectors. The largest number employed in any previous year was 30.

While there has been improvement in the packing of fruit, especially with regard to apples, the inspectors have found it necessary to lay complaints in a number of cases, and 90 persons have been convicted during the year for violations of the Inspection and Sale Act. Of this number 10 cases related to imported fruit which was not marked according to the requirements of the Act.

THE FRUIT CROP REPORT.

A monthly Fruit Crop Report was published, as in former years, from May to September, making five issues for the season.

FRUIT PACKING.

The services of permanent fruit inspectors have for some years been utilized during the slack periods, as far as their skill and experience would permit, to give instruction in the packing of apples. To meet the increasing demand for instruction in the packing of apples in boxes, I have authorized the appointment of an expert who will give his whole time to that work.

APPLES FOR INTERNATIONAL EXHIBITIONS.

The Dairy and Cold Storage Commissioner has for some years been intrusted with the matter of securing apples for display at the various International Exhibitions in which Canada has been taking part. Over 1,500 boxes of apples, collected from all the fruit growing provinces, were recently shipped to the Exhibition Commissioner at London for use at Ghent, Belgium, during the coming summer.

COLD STORAGE.

CREAMERY COLD STORAGE BONUSES.

The policy of paying a bonus of $100 to creameries for the erection of approved refrigerators has been continued.

COLD STORAGE SUBSIDIES.

Six contracts were entered into during the year for the payment of subsidies on public cold storage warehouses erected according to the terms of the Cold Storage Act. Other applications are now under consideration.

PUBLICATIONS.

An Annual Report giving the details of the work of the Branch is being prepared by the Dairy and Cold Storage Commissioner, and it will be published as an appendix to this volume. A number of bulletins dealing with particular subjects relating to dairying, fruit growing, and cold storage have been published during the year. Blue print plans for cheese factories, creameries, small cold storages and farm dairies are sent free of charge to any person who applies for them.

MEETINGS.

A large number of meetings have been attended by the officers and experts attached to the Dairy and Cold Storage Branch.

SEED COMMISSIONER'S BRANCH.

The service of the Seed Branch has continued to expand in each of three main divisions: (*a*) Seed Growing. (*b*) Seed Testing. (*c*) Seed Inspection. The work of encouraging the production of selected seeds by farmers was started in a small way in 1900; a seed laboratory for the testing of seeds was established in 1902; and the Seed Control Act requiring the inspection of seeds when exposed for sale in commerce became law in 1905. There are now sixty-two officers, clerks and temporary seed inspectors engaged in this service for agriculture.

Seed Growing.—New and improved varieties and strains of seeds are commonly made available to farmers and gardeners by plant breeding experts employed at both federal and provincial experiment stations. There are a few seed growers in each province who follow an approved system of selection to maintain the purity of such seed while increasing the quantity from year to year. Their crops and seeds are regularly inspected and if of superior quality are recommended by my district seed inspectors for registration in the records of the Canadian Seed Grower's Association. The selected seeds produced by growers who make a speciality of that work are much in demand by farmers who compete for prizes in field crop competitions with seed grain and other field and garden crops. The plan for co-operating with the provinces

that I authorized last year with a view to extend the benefits that accrue from these field competitions has been productive of gratifying results. These seed growing competitions among farmers have materially increased in all of the provinces, and in addition to creating large supplies of excellent seed grain and other seeds in almost every farming district and even locality, the special care as to cultural methods in producing prize winning crops serves as an excellent object lesson and tends to stimulate much interest among farmers in general in the agricultural practices of their more successful neighbours. .

Seed fairs and provincial seed exhibitions are both educational and commercial in scope and character. The seed fairs are quite local and held at an opportune time of year for the sale and exchange of seeds among farmers. The best exhibits shown at seed fairs, the seed from prize winning fields in the field crop competitions and registered seeds of selected stocks are brought together for exhibition and sale at the larger provincial seed exhibitions. To meet the cost of maintaining them subventions are provided to all the provinces to the extent of two-thirds of the prizes awarded. It is a pleasure to report that the usefulness of these organizations has been materially extended during the past year.

Field root and garden vegetable crop seeds have not heretofore been commonly grown in Canada in quantity for commerce. Some experimental work that has been done would seem to indicate that better results are to be obtained from these crops when selected acclimated seeds are used. The high cost for farm labour in Canada compared with the abundance and cheapness of labour skilled in seed growing in those countries from which these seeds are imported has tended to discourage the home production of selected seeds for these crops.

With a view very gradually to create a supply of acclimated seeds of field root and vegetable crops, I authorized the payment of subventions to *bona fide* growers of properly selected seeds of certain staple kinds, subject to definite regulations and efficient inspection on the part of my district officers. The main purpose of extending this form of encouragement to competent seed growers is educational. The subvention offered amounts to approximately one-eighth of the average retail price for the kind and, it is estimated, will be about sufficient to neutralize the advantage of cheap labour that is available to the seed growers of Europe.

During the growing season my district officers were able to devote several weeks to inspecting seed crops in the principal grass and clover seed producing districts. Encouragement has also been given to the growing of clover seeds in many districts where these seeds have commonly been imported though seldom if ever saved from the crop. Much good work has been done by visiting the growers of these seeds on their farms and giving them expert advice as to the best methods of weed eradication and the production of seed of the highest grade for commerce.

An exhaustive treatise on fodder and pasture plants and the production of seed from them, with coloured illustrations of all the principal kinds of grasses and clovers, has been prepared and as soon as printed will be distributed free to public institutions including the libraries of farmers organizations, and made available to individuals at a very nominal price.

Seed Testing.—The testing and grading of seeds under the Seed Control Act has continued to increase. Grass and clover seeds for purity test and official grading made up sixty-eight per cent of the total work at the Ottawa, and only about nine per cent at the Calgary seed laboratory. Seventy per cent of the samples received at the Calgary laboratory were of cereal grains for germination test. In all, 11,215 samples were received, tested, and reported upon from the Ottawa laboratory during the past year which shows an increase of thirteen per cent over the previous year. A total of 7,832 samples were tested and reported upon from the Calgary laboratory. Because of more favourable climatic conditions for maturing the cereal crop of 1912, there was very little damage to the oats and other grains from frost and, in consequence, the necessity on the part of farmers of having their seed grain tested as to vitality was less pronounced than in some former years. The need for careful attention on the part of my officers to prevent the unwitting use for seed of oats that may have suffered from low temperatures before being fully matured and dried is indicated in the conditions of the past year which was considered reasonably favourable in respect to climate, but when out of 3,678 samples of seed oats tested 817 samples germinated less than 63 per cent.

The change in the Seed Control Act which requires seed merchants to grade their timothy and clover seeds according to definite standards of quality before exposing them for sale, has entailed a large increase in the service of testing and grading samples for seed merchants. Formerly about one-half of the work done in the Ottawa seed laboratory was for farmers; during the past year 8,208 samples were tested for seed merchants, and 3,007 for farmers at Ottawa; and 2,092 for seed merchants, and 5,645 for farmers at the Calgary laboratory.

The testing for purity and grading of grass and clover seeds for commerce must be done with reasonable promptness. A certificate of grading has been issued on all samples sent in for that purpose during the past season, within twelve working hours of the time when the samples were received at the laboratories. To ensure prompt service with this work it is necessary to maintain a well trained staff of seed analysts sufficiently large to meet the demands for that service at the busiest season of the seed trade.

The following table shows the percentage of the total number of samples for the year that was received for test during each month for the past three years:—

Months.	1910-11.	1911-12.	1912-13.
April	15·11	10·26	15·85
May	3·91	3·16	7·10
June	0·83	0·64	0·65
July	0·78	0·22	0·66
August	2·36	1·82	1·33
September	2·93	2·29	2·43
October	8·72	6·10	4·49
November	5·09	4·01	6·73
December	8·14	11·63	6·33
January	13·14	11·40	13·24
February	14·31	20·01	15·35
March	24·77	25·16	25·84

During the winter and early spring months practically all of the permanent laboratory staff are employed in technical work and the staff is increased by the addition of temporary clerks for clerical and other work. In the summer months the permanent staff are fully employed in investigating conditions of the commerce of seeds by testing samples collected for that purpose by seed inspectors, and in other divisions of the work of this Branch.

It is believed that as a result of an efficient service for seed testing having been made available to farmers and seedsmen much greater care is taken by them in the matter of the purity as to weed seeds and the vitality of seeds. It is not possible completely to prevent the introduction and dissemination of weed seeds in commercial seeds but there is good reason to believe that the educative effects of seed testing and other work supplemented by legislation has tended towards the elimination of useless waste and the production of better crops through discouraging the production and sale of impure seeds and encouraging the selection and commerce of the best.

The trial plot tests with field root seeds were continued during the past year. The purpose of this branch of seed testing work is to investigate the extent to which mixed and inferior stocks of these seeds are imported and distributed in the retail trade. To do this work specially skilled experts are required and a sufficient area of land for growing the seeds to be tested to the full maturity of the plants. During the past year I was able to arrange for a few acres of land to be donated to that purpose at the Experimental Farm.

Seed Inspection.—The work of seed inspection is instituted to secure the observance of the Seed Control Act. For the convenient and more efficient administration of this service the whole territory to be covered is divided into seven principal districts and each district is placed under the direct charge of a competent and experienced seed inspector. During the busy season of the seed trade temporary inspectors are employed to assist with the work in each district. It is their duty to inspect the seed and, if it is found to be contaminated with noxious weed seeds, wrongly graded, nonvital or otherwise exposed for sale contrary to the provisions of the Act, an official sample is drawn in the presence of the seller and sent to the laboratory for comparison with the original sample that was graded, or for vitality or purity test.

It is gratifying to be able to report that everywhere in Canada the administration of this law and the regulations thereunder has met with the wholesome support of both farmers and seed merchants. I regret that there were a few merchants who were recommended for prosecution and who received the condemnation of the court because of repeated careless practices on their part.

I have been pleased again this past year to co-operate with my colleague the Honourable the Minister of Interior by having my staff of seed inspectors assist in the work of procuring a supply of clean seed grain required for distribution to needy homesteaders in the prairie provinces; also to assist in procuring a supply of good seed oats that were purchased by the farmers of North Eastern Quebec.

LIVE STOCK BRANCH.

An important change has been made in the administration of this Branch during the past year. Following the resignation of Dr. J. G. Rutherford, as Live Stock Commissioner, in March 1912, it became impressed upon me that the separation of the Health of Animals and Live Stock Branches would be in the best interests of the Public Service. This proposed change was definitely provided for in November, 1912, and became operative in the following December, with the appointment of Mr. John Bright of Myrtle, Ontario, as Live Stock Commissioner. Should any justification for this step be sought for, it ought not to be difficult to find it in the constantly growing demand upon our live stock resources by the expansive development of commercial and industrial activities in the country and in the fact that live stock production is passing through a somewhat critical stage in its history and is now admittedly unable to keep pace with the increasing consumptive demand of the home markets for meat and meat products. I do not hesitate to say that very great opportunities are offered at the present time for the initiation of a constructive campaign in the interests of our live stock industry and no apology is offered that improved facilities are being provided for its effective administration.

During the year, something really tangible has been done to encourage the sheep industry. A very liberal grant was made through the Live Stock Branch to the Dominion Sheep Breeders' Association and this was spent in purchasing and in distributing, through the medium of auction sales, a large number of pure bred rams and grade ewes in British Columbia and in the maritime provinces.

The work, on behalf of the Dominion Sheep Breeders' Association, was carried on through a committee of three of its members, one of whom purchased the sheep, while the two others prosecuted a campaign of investigation and education, one of them working in British Columbia and the other in the maritime provinces. Each of the latter delegates was accompanied by an officer of the Live Stock Branch, while a local member was added to the committee in the maritime provinces.

The British Columbia committee reported that a keen interest was evidenced not only by the new settlers who were anxious to secure a few individuals to start a flock, but, as well, by the larger farmers and land owners. The quality of mutton and lamb supplied at the present time by the home breeders represents but a very small part of the total amount consumed in the province. Australasia supplies annually more than 100,000 frozen carcasses, while thousands of live sheep and lambs are brought in from United States. The keen local demand, coupled with the fact that sheep have proven a profitable investment under the varying conditions which are found on the islands, on the lower main and in the upper country, has turned the attention of many people to the prospective advantages likely to be realized through maintaining sheep on their farms. A little direction and assistance at this time should result in making sheep raising one of British Columbia's most profitable industries.

The Maritime Committee made a thorough investigation as regards the methods followed by the sheep men and the farmers in the eastern provinces. Through per-

sonal contact with the breeders upon their own farms, the committee were enabled to get an insight into conditions and also to offer much practicable advice in encouraging the adoption of improved methods in the care and management of sheep. In the majority of sections, the need of better sires with which to grade up the flocks was very apparent. Evidence of the lack of proper feed, of faulty care and of bad management was repeatedly observed. Co-operation, except in one or two districts in Prince Edward Island, had not been practised. The steady decline of the industry during several decades may be atributed to the fact that a practical knowledge of sheep raising is possessed by only a few farmers and breeders in these provinces.

Notwithstanding this, few countries are favoured with greater natural advantages in their adaptability to sheep raising, particularly when there are considered the factors of cheap land, of a suitable climate, a steadily growing home market and of water transportation to the important markets of United States and Great Britain. Maritime lamb has already achieved a reputation on the American market and there commands a premium because of its quality. The shortage of the local meat supply and the consequent rise in price is doing much, however, to revive an interest in sheep keeping and to create a desire to follow improved methods in breeding and marketing.

In British Columbia there were distributed 130 pure bred rams and upwards of 1,000 grade ewes. In the maritime provinces the total number offered at the sales consisted of 400 pure bred rams and about half that number of ewes. It is believed that, as a result of the introduction of this new blood, there will be a consistent improvement in the quality of the stock raised, and, at the same time, it is expected that considerably more sheep will be reared than has been the case during the past years.

To provide for the prosecution of an aggressive and systematic campaign in the interests of the sheep industry, I authorized, in the early part of the year, the appointment of a Sheep Specialist, whose duty it would be to give direct assistance to sheep raisers and to devise means for ameliorating the conditions under which sheep are raised and their products marketed. During the summer, this officer confined his field of endeavour to the western provinces. There in the past, the preparation and marketing of wool has been pursued in a rather haphazard fashion, as a result of which the grower has not received a price that the inherent quality of his product would warrant. The Sheep Specialist has been able to assist in the organization of two flourishing wool growers' associations, the success of which is directly proving the advantages that invariably result from concerted action.

The gathering of specific information relative to the marketing facilities for this commodity has received attention. Not only have conditions in the home market been carefully studied, but, as well, those in Great Britain. Information from the latter source is exceptionally valuable, particularly as Great Britain represents the central market for the world's wool, and on this market virtually all prices are controlled and fixed. An effort is being made to bring about such a standardization of Canadian wool and to improve the methods followed in its preparation that it may

compete successfully in the world's markets with the wool produced in countries where a more perfect organization prevails. It has become clear that, in order to promote an extension of sheep raising in Canada, the whole problem relating to the production and marketing of wool must receive primary attention.

During the past year lecturers have been supplied, upon request, to various provincial departments, winter fairs, boards and local organizations. This form of assistance has been taken advantage of very freely, and from reports received, the services of the speakers supplied have proved most acceptable. In addition, the usual series of agricultural meetings were arranged for during February and March in the French speaking districts of the province of Quebec. Forty-eight places in all were included in these series, and, as a result of special efforts made to insure proper advertising of the meetings, the average attendance was much larger than heretofore. The interest manifested in the subjects discussed by the speakers on the various delegations was highly encouraging and the opportunity thus afforded of interchanging ideas with men of more than local agricultural experience was evidently much appreciated.

The policy of supplying judges of live stock and of poultry for exhibitions, winter fairs and local fall fairs to associations applying for same has been continued by the Department. The advantages resulting from the employment for work of this kind, of specially qualified men who have no special interest in the awards, have become widely recognized by exhibitors and the many requests received for assistance of this nature have amply justified its continuance.

The Canadian Record of Performance work, now firmly established in the confidence of the farming public, has continued to expand. With the exception of the province of Manitoba, from which up to the present time no entries have been received, each province in the Dominion is well represented in the tests. While the number of entries from Ontario and Quebec still greatly exceed those from other provinces, there has been a very noticeable growth in the work, both in the east and the west. A year ago the appointment of an inspector for the maritime provinces was noted. During the past year the rapid development of the work in the province of British Columbia has necessitated the appointment of a special inspector for that province. In Ontario and Quebec, eight inspectors are now devoting all of their time to supervising tests, two additional men having been appointed in order to keep pace with the work. In all, upwards of one hundred and fifty herds are now represented in the tests with a total of nearly one thousand cows entered. While the work is of very great and direct benefit to the pure bred stockmen, it has a wider influence in furnishing to the owners of grade herds reliable and valuable information to govern the selection of bulls to place at the head of their herds. The justification of the undertaking of the work in the first place lay in a large measure in this fact and already there has bene ample demonstration of appreciation on the part of dairy men in general of the advantage thus afforded. The ultimate improvement in the dairy stock of the country, which will be attained as a result of this form of assistance, cannot, therefore, even be estimated.

The officers engaged in furthering the poultry work of the Branch have been largely concerned with problems of marketing poultry produce, particularly that phase relating to the unsatisfactory conditions apparent in the Canadian egg trade. It has been evident for some time that the enormous losses occurring in this trade and the general unsatisfactory condition of eggs as they reach the consumer are due, to a certain extent, to carelessness and neglect on the part of the farmer and to the practice by many merchants and local egg buyers of holding eggs at certain seasons of the year without having proper facilities for storing them.

Two plans of work have been followed. Based on the conditions already mentioned, the first includes the assistance extended in the organization of Co-operative Egg Circles and of other means tending to facilitate the marketing of eggs more frequently and regularly. A number of these circles in Ontario, Quebec and the maritime provinces are now actively engaged in shipping their eggs co-operatively. Mr. T. A. Benson, who was appointed to have charge of the poultry work of the Live Stock Branch in Prince Edward Island, has been largely responsible for the furthering of this plan in that province. Owing to the frequent number of requests received, other officers of the Branch are now actively engaged in this work in other provinces.

The second phase of the poultry policy has entailed a thorough investigation of the wholesale egg trade. Already considerable information has been acquired, and it is expected that, when the material is all in hand, there will be available sufficient information on which to base a comprehensive policy of education and legislation. Mr. J. H. Hare, B.S.A., formerly representative of the Provincial Department of Agriculture in Ontario county, has recently been appointed to take charge of this work.

A number of leaflets and bulletins dealing with the various phases of the work have been from time to time prepared. Of these, special mention may be made of Bulletin No. 16, the demand for which has been so great that within five months from date of publication, the first edition of 30,000 copies was exhausted. A second edition is now being printed.

Several provincial and federal organizations have been granted direct financial assistance to enable them more successfully to carry on their work. The office of the National Live Stock Records has received the largest individual grant, it being conceded that the work entailed in the registration of our pure bred live stock under the system in vogue in Canada deserves generous recognition and support. Of the other bodies receiving aid of this nature, there may be mentioned The Poultry Producers' Association of Canada, several Provincial Cattle Sales, The Maritime Winter Fair and the Winter Fairs of Manitoba, Saskatchewan and Alberta.

DOMINION EXPERIMENTAL FARMS AND STATIONS.

To the fourteen branch farms and stations reported on last year has been added an experimental station for the province of New Brunswick, located at Fredericton.

Much has been accomplished during the year in the better fitting of those branch farms already established, for the various lines of work to be taken up. Further areas have been added to some of them, allowing scope for a wider range of experiment and a number of new buildings have been erected.

These features are reported on in more detail in the notes on the different farms and stations given below.

The increasing volume of work and the elaboration of the experiments being carried on, made necessary a re-arrangement of the Divisions at the Central Farm. The former Agriculturist's Division has been made into two, the Division of Animal Husbandry and that of Field Husbandry. A Division of Forage Plants has also been established, having to do with the study of varieties of corn, roots, clovers and grasses.

Since April 1, 1912, the following publications have been issued:

Of the Second Series of Bulletins, No. 10, the Large Larch Saw-fly; No. 11, Legislation in Canada to prevent the Introduction and Spread of Insects, Pests and Diseases injurious to Vegetation; No. 12, Feeding for Beef in Alberta; No. 13, Experiments in Steer Feeding in Manitoba and No. 14 on Corn-growing in Manitoba.

Of pamphlets, there were issued No. 9, on Hardy Rose Culture in Canada; No. 10, on Tomato Culture and No. 11, on Cabbage and Cauliflower Culture.

The circulars brought out were No. 1, on Potato Canker; No. 2, The Orange Hawk-weed; No. 3, Potato Canker and also Entomological Circulars No. 1, on Tent Caterpillars and No. 2 on Flea Beetles and their Control.

In addition to the above, a Guide to the Experimental Farms and Stations was prepared. This publication gives a short account of the work being done in each division at the Central Farm as well as outlines the work under way at each branch farm and station. It is generously illustrated with maps and plates.

FIELD HUSBANDRY DIVISION.

Field crop experimentation, which in the past has formed a part of the work of a larger division having to do with both the culture of field crops and the raising of live stock, now constitutes a division in itself.

The scope of its work includes soil cultivation and drainage, methods and costs of growing, harvesting, and storing farm crops for grain and fodder, the conduct and comparative values of different rotations for live stock purposes.

In soil cultivation it is aimed to learn the minimum cost and the most effective methods of increasing crop yields and preserving soil fertility.

In the growing of crops, studies are made of the comparative values of different kinds as forage for live stock.

During the past year the rotation tests have been reorganized and extended so that there are now laid down fifteen permanent rotations. In the investigation of these the following points of merit are being considered:—

1. Their ability to supply different crops in the proportions for certain needs.
2. Their power to keep weeds in check.
3. Their effect on the fertility of the soil, as may be evidenced by an increase in crop production from one series of years to another.
4. Their comparative profits.

ANIMAL HUSBANDRY DIVISION.

This is a new division of the Experimental Farm system, made separate from that of Field Husbandry during the past year.

The work of this division is to directly lay out and superintend the feeding, management and housing of animals; the manufacturing and marketing of products from same and all routine and experimental work connected therewith on the Central Experimental Farm.

By visiting the branch farms, the Animal Husbandman has been brought into close touch with their work. Such should tend to assist the superintendents under the supervision of the Director, to lay out new live stock experimental work and in better systematizing that work which has been in progress.

LIVE STOCK ON CENTRAL FARM.

Horses in the past have been used for working purposes only, but during the past year breeding work was commenced. A few mares are now in foal; the number will be increased as accommodation permits.

Beef cattle work for the past year was limited to experimental steer feeding, no breeding stock being kept.

Dairy cattle are receiving increased attention. Representatives of five breeds, namely: Holstein, Ayrshire, Guernsey, Jersey and French Canadian are kept, all of which have shown remarkably good returns. Many pure bred animals from these herds are annually sold for moderate prices. The increasing demand for such stock indicates the desire of farmers to improve their breeding herds.

Sheep are kept in small numbers. Shropshires and Leicesters, representing respectively the medium and long wool types of sheep, make up the flock.

Swine raising has again demonstrated itself as one of the best paying branches of the live stock work. Yorkshires, Tamworths and Berkshires are kept, with which valuable and interesting breeding and feeding experiments are conducted. Large numbers of young pure bred animals for breeding purposes are annually sold at a moderate price. The increasing demand for such is an encouraging evidence of the awakening of the live stock industry.

Much experimental work has been conducted as to the most advantageous methods of producing and marketing farm produce, particularly that from the dairy herds.

Such work has included the manufacturing of butter, Cheddar cheese, cream cheese, Coulommier cheese, pure milk and certified milk; also testing of efficiency and economy of milking machines and many co-relative problems. Much information of economic value is thus being secured.

BUILDING FOR ANIMAL HUSBANDRY DIVISION.

An excellent barn wherein to conduct dairy feeding and live stock digestion experiments has been erected during the past year. The new building in most respects also stands as a model dairy barn in which are incorporated the features essential for the production of healthy stock and pure milk, namely: light, ventilation, durability, economy and efficiency.

With but two exceptions, namely: the dairy building and sheep barn, there is now the best collection of farm buildings in Canada, which are, in essentials, being copied by a large number of stock breeders.

HORTICULTURAL DIVISION.

It is now twenty-six years since horticultural work was begun at the Central Experimental Farm, and during that time much aid has been given to farmers, market gardeners, and fruit growers throughout Canada by means of reports and bulletins, general correspondence, and by addresses at public meetings, based on the results of experiments conducted. The high regard in which the information obtained from the Dominion Experimental Farms is held is clearly shown by the greatly increased correspondence in recent years in which many questions are asked. The accumulated experience and observation of twenty-five years in many parts of Canada makes it possible to make definite recommendations and give good advice to those who desire it and the losses from which prospective horticulturists have been saved by this means cannot be estimated. Those who have also had long experience look to the Experimental Farms for help.

It is the duty of the Dominion Horticulturist to co-operate with the superintendents and managers of the Experimental Farms, Stations and Sub-stations throughout Canada and give them as much help as possible so that there will be a development in the horticultural work in the directions most likely to aid the people in those parts of Canada which the stations are intended to serve. In 1912 the Dominion Horticulturist was able to visit most of the farms and stations twice.

At the station at Charlottetown, Prince Edward Island, there are now good plantations of tree fruits, small fruits, ornamental trees and shrubs and herbaceous plants, and the information already available from the experience with them is of much value. A number of varieties of grapes have been found to ripen well, and while grape-growing may not become a commercial industry there the fact that certain varieties can be grown successfully makes it possible to have an abundant supply for home use.

At Nappan, Nova Scotia, the great advantage of protection from the high winds which occur in many parts of Nova Scotia has bene already shown. There has been a marked difference in results in protected and unprotected orchards. It has been shown that fruit growing can be developed much more than it is in these northern counties. The trees in a young orchard recently planted with varieties of apples which have been found to succeed best after over twenty years' experience did well in 1912, and it is proposed to carry on cultural experiments here.

There were twenty-one acres of orchard planted in 1912 at the new station in the Annapolis valley at Kentville, N.S. In this orchard are represented practically all the best commercial varieties grown in Nova Scotia and in sufficiently large numbers for a commercial test. It is the intention to carry on cultural experiments on an extensive scale here as the fruit industry is a very important one in this part of Nova Scotia.

The Dominion Horticulturist visited the new station at Fredericton, New Brunswick, in the autumn of 1912, and planned with the superintendent where the future horticultural experiments would be carried on. It is proposed to make potato experiments an important feature of the work here, and experiments will be begun in the spring of 1913.

The Experimental Station at Cap Rouge, Quebec, situated within a few miles of the city of Quebec, should in addition to its usefulness to the province as a whole, prove of great value from a horticultural standpoint to the people of that vicinity who desire to supply fruit and vegetables to the cities of Quebec, Montreal and other towns of the province, and who should grow more and better horticultural products for home use. The orchards and small fruit plantations did well in 1912. A special effort was made, with good success, in supplying a considerable quantity, to the city of Quebec, of assorted vegetables in hampers, as an example to the market gardeners of the vicinity.

It is proposed to do the first planting at the Experimental Station at St. Anne de la Pocatiere, P.Q., in the spring of 1913, and material for an orchard of apples, pears, plums and cherries has already been ordered.

At the Central Experimental Farm the many lines of experimental work which are in progress were continued in 1912. A number of these experiments were given in some detail in the report of last year. More new and promising apples fruited in 1912, and some excellent seedling strawberries have been named and are being propagated for test in other places. The fruit crop at the Central Experimental Farm was good in 1912.

More attention is being paid each year to horticulture at the farms and stations in the prairie provinces at Brandon, Indian Head, Lethbridge, Lacombe, Rostern and Scott. The thousands of new settlers coming in every year, and those who have been some time in the country, are many of them anxious to grow fruits and vegetables for their own use and apply to these farms for information. It is also gratifying to know that many of the older settlers are seeking advice in regard to trees, shrubs and herbaceous plants that will help them to improve the outside appearance of their homes. The older farms have now a large fund of reliable information which they give freely to all who ask for it.

In British Columbia there are now three Experimental Farms and Stations. At the Experimental Farm at Agassiz on the lower mainland, fruit growing was for more than twenty years made an important part of the work. It was recently decided, however, that for the lower mainland dairying should be given the most prominence. In 1912 material was ordered for a demonstration horticultural orchard and garden to consist mainly of the varieties which had been found to succeed best in previous years and to be regarded as a plantation such as a farmer would set out for home use. Experiments with ornamental plants were conducted on a larger scale than usual in 1912 as this part of British Columbia is particularly suited for flowers and ornamental trees. Experiments with vegetables are also carried on here.

At Invermere in the Columbia River valley where an Experimental Station was recently established, material was sent in during the autumn of 1912 for an orchard and small fruit plantation to be set out in the spring of 1913. It is planned to try cultural experiments here with and without irrigation. Potato experiments will be given prominence.

At the new Experimental Station at Sidney, Vancouver Island, considerable horticultural work will be done. Material for small fruit plantations, vegetable experiments, including potatoes, flowers and ornamental trees and shrubs were ordered in 1912 for planting in 1913, so that experimental work will soon be in progress.

In May, 1912, the Dominion Horticulturist was sent to England to represent Canada at the Royal International Horticultural Exhibition held at London during that month. This was the greatest horticultural exhibition ever held in any country and much information was obtained that has and will be put to good use in Canada. As President of the Society for Horticultural Science, an international society representing the leaders in horticultural investigation in America, the Dominion Horticulturist delivered the annual address at Cleveland, Ohio, in December, 1912, his subject being 'The Relation of Climate to Horticulture' and among other things, was able to show how suitable a climate there is in many parts of Canada for the cultivation of fruit and vegetables. Other important meetings were also attended throughout the year.

CEREAL DIVISION.

The season of 1912 was even less favourable for cereals than that of the preceding year. Some large areas of country suffered considerably from drought and excessive heat in the early part of the summer. Afterwards the weather changed completely and became cool and wet. These conditions prevailed over almost the whole of Canada. The ripening and harvesting of grain crops were most seriously delayed, and much of the seed was badly injured while in stock. In many districts the hot dry weather of early summer caused the young plants of cereals to send out a small number of heads rather prematurely and, when the rains came and stooling of plants followed, a large crop of late heads was produced. These, though too late to ripen, grew to greater height than the earlier heads; so that when the first heads were ready to be harvested they were almost hidden beneath a mass of green stalks.

Under such conditions it became extremely difficult to make proper observations on dates of ripening. The yields obtained were also misleading in some instances. Early maturing varieties suffered most, as they were farther advanced (and therefore less capable of recuperating) when the wet weather set in.

The first severe frost came rather later than usual, so that the results of the season were not so disastrous as might have been expected. There was, however a general lowering of the quality of the grain, which was particularly serious in grain intended for seed purposes.

Under such adverse conditions the usual progress in cereal investigations and in the propagation of the best new varieties and selections for introduction could not be made. But the year was by no means unfruitful of results.

MARQUIS WHEAT.

As in previous years this magnificent variety again demonstrated its superiority over all other sorts in the great wheat growing provinces. While in a few cases it suffered so severely from the hot weather that the yields obtained were less than from Red Fife, such instances were quite exceptional. As a rule Marquis outyielded Red Fife by a large margin and ripened, of course, a week or two earlier. Marquis again won the highest award in international competition. At the International Dry-Farming Congress held in Lethbridge, the champion wheat was an exhibit of Marquis grown in Southern Alberta.

A new plot record for spring wheat was obtained with Marquis at Indian Head this past season, when a 1-40 acre plot gave a crop at the rate of over 81 bushels per acre. This is probably a world's record for spring wheat.

It is most gratifying to know that Marquis wheat has been propagated by thousands of farmers with such rapidity that it has been possible for everyone who made the effort in good time during the past winter to secure at least a few bushels of seed. The general recognition now given to this variety is noteworthy, when it is recalled that Marquis wheat was introduced into Saskatchewan in 1907, when about half a bushel of seed was sent from Ottawa to the Indian Head Experimental Farm for trial.

PRELUDE WHEAT.

Small fields and plots of this new and extraordinarily early variety were grown last season at the various experimental farms in those localities where early sorts are required. A few small samples were also sent out to private individuals for test elsewhere. The results have been most gratifying, and show that this most recent introduction by the Dominion Cerealist will be of very great value over large tracts of northern country, for which heretofore no variety of wheat which would ripen sufficiently early has been available. The regular distribution of Prelude wheat to the farmers in five-pound samples was begun this winter. The stock of seed was not large, and consequently much care was needed to send the wheat only to those localities where it was particularly needed. Over two hundred samples were distributed. Provision has been made to grow a good acreage of Prelude wheat this year, so as to have a large stock for distribution next winter.

ANNUAL DISTRIBUTION OF SEED GRAIN.

The seed distribution is being carried on during this season in a manner similar to that of last year. All the grain sent out is grown with the greatest care, so as to be free from admixture with other varieties, and after threshing it is thoroughly cleaned and hand-picked, if necessary, so as to bring it up to the highest possible standard of purity. By sending out only seed of the best varieties and of extraordinary purity and by the enforcement of reasonable regulations, so that applicants for samples shall be taught the value of good seed, the whole system of distribution has been placed on a much better basis, and cannot fail to be of greatly increased advantage to the farmers of Canada.

CROSS-BREEDING AND SELECTION OF CEREALS AT OTTAWA.

The cross-breeding and selecting of varieties of cereals has been continued at Ottawa. Some crosses were made last summer in which a new, beardless barley was employed as one of the parents. No really satisfactory beardless barley has ever yet been offered to the public, and it is hoped that some of the new sorts now being produced at Ottawa will prove of quite superior quality. Crosses were also made between some of the best of the Cerealist's new varieties of wheat, to see whether still further improvements may not be obtained. Among these the greatest interest will probably be taken in the crosses between Marquis and Prelude wheats, among the progeny of which it is hoped that a new wheat may be secured combining the best points of the two parents and showing advantages over either of them for certain sections of country.

DIVISION OF CHEMISTRY.

The past year has witnessed a considerable increase in the work through which the Division seeks to instruct and advise the individual farmer. There is much of value to be learnt from chemistry regarding the composition and properties of soils, manures, fertilizers, fodders and feeding stuffs, spraying materials, &c., &c., and it has been the constant endeavour to make the division more and more useful as a bureau of information in such matters. It is, therefore, gratifying to note the increasing appreciation of our farmers of this important and directly educational feature of the work.

The samples received for examination during the year numbered 2,821. They comprised soils, fodders, and feeding stuffs, naturally occurring fertilizers, insecticides and fungicides, well waters and other matters of an agricultural nature. While the investigations of the Division furnished a proportion of these samples, the larger number were sent in by farmers, good evidence that our agriculturists are realizing the value of chemical assistance in their work.

The investigatory work, as heretofore, has covered a wide field and the results therefrom have thrown light on many of the problems encountered in general farming, and also furnished useful information to those engaged in one or other of the specialized branches of agriculture, such as fruit growing and dairying. Several important

researches under study for a number of years past have been continued, such as the economic maintenance and increase of soil fertility, the conditions which lead to the control of soil moisture and the influence of environment on the composition of wheat and in addition certain new investigations have been inaugurated which, it is expected will furnish results of value to Canadian agriculture.

The Nitrogen-enrichment of Soils.—The study of soils in the field and in the laboratory prosecuted by this Division, has indicated that nitrogen is the plant food constituent which above all others determines fertility, that it is the dominant element in so far as food is concerned, affecting growth. Further, it is of all the elements furnished by the soil to the crop the one that is most quickly dissipated by irrational methods of farming. These conclusions have given a special impetus in the carrying on of investigations towards the maintainance and increase of the nitrogen content of soils, on the farm, in the orchard and under conditions of management and climate of a special character.

The value of the legumes, clover, alfalfa, vetches, etc., as nitrogen enrichers has been determined in several ways by this Division during the past quarter of a century. One of the investigations in this connection, that has been in progress for ten years may be briefly referred to, as the results obtained are very significant. A plot of light, sandy soil, too poor at the outset for profitable farming, was supplied with available phosphoric acid and potash and inoculated with a clover culture. It was then sown with common red clover, which as it grew was cut and left on the ground. Every second year the plot was dug and resown to clover. Analyses of the soil have been made from time to time and each analysis showed that in spite of losses consequent upon cultivation there was an increase in the nitrogen content. At the end of ten years it was found that an average annual gain of 50 pounds of nitrogen per acre had been made during that period, or in other words, the surface soil in that time had doubled its nitrogen content a result that furnishes proof of an indubitable character of the practical value of clover in the rotation.

Closely related to the foregoing, another experiment was started last year (1912) on the Central Farm, using a series of plots upon which a rotation of clover, grain and corn or roots would be followed, no manure being applied. This series, from crop yields and analysis of the soil, will it is expected give valuable data as to the up-keep of soil fertility for those whose supply of manure is limited and show how far it may be possible, on a sandy loam, to maintain productiveness by this procedure—that is, simply by the introduction and periodic growth of a leguminous crop.

The facts as regards the practical benefits from the use of 'cultures' and of soil from fields bearing a leguminous crop for inoculation purposes, as gathered from our experiments in various parts of the Dominion, have been collated. They show that on the whole more satisfactory results may be expected from inoculation with soil—applied at the rate of from 100 to 300 lbs. per acre and harrowed in at the time of seeding—than from the prepared cultures found on the market. They further indicate that inoculation is not so generally necessary as was at one time thought but that failure to obtain a good catch of clover is frequently due to an uncongenial condition of the soil, such as sourness, deficiency in lime or want of sufficient moisture to sustain the young and tender crop.

Canadian Soils.—Some additional knowledge regarding the soils of the Dominion has been gained by the analysis of samples representative of certain untilled areas in the various provinces.

Conservation of Moisture.—The experiments instituted on the western experimental farms with the view of ascertaining the influence of various cultural operations and croppings on the moisture content of the soil, have been continued. This important and difficult problem will yet require years of patient and laborious work, but already there is some proof of the value of early and deep ploughing and of frequent surface cultivation for the storing and conservation of the moisture in regions of sparse precipitation. The protection furnished by certain forage crops, as for instance peas and oats, against surface evaporation has also been shown.

Naturally-occurring Fertilizers.—In this connection attention has been more particularly directed during the past year towards the use of ground limestone as an amendment. There seems little doubt but that this material will be found of value for sour soils and those deficient in lime, both clays and sands. It may also be expected to improve peaty and muck soils. In many cases it would be a cheaper and safer material than quick lime. As efficiency will depend on the percentage of carbonate of lime present and the degree of fineness to which the limestone has been ground, these determinations have been specially made in the examination of a number of samples submitted to the farm laboratories, and which have been sent from several of the eastern provinces as well as from British Columbia.

Fodders and Feeding Stuffs.—A considerable amount of analytical work has been accomplished in the valuation of feeding materials of various classes. The information thus afforded should be found useful by farmers, who in these days of high values, must in some measure at least seek to correlate nutritive properties with current prices, if due economy in feeding is to be practiced.

The influence of heredity as affecting the feeding value of mangels has received further study and the results have emphasized that very considerable differences exist between varieties commonly sown. This shows that not only should yield and keeping qualities be considered, but that composition and feeding value as determined by analysis should also be ascertained by those growing this valuable crop. As an example of this research it may be stated that the Gate Post or long red variety proves on examination to be much superior to the Yellow Globe, both in dry matter and sugar.

Sugar Beets.—The leading varieties of factory sugar beets have been grown on the experimental farms and stations throughout the Dominion and the product examined as to purity and sugar content. The data give evidence of the possibility of growing excellent beets in many widely distant parts of Canada.

The Fertilizing Value of Rain and Snow.—This investigation, which has for its object the estimation of the nitrogen compounds in the precipitation at Ottawa, was begun in 1906. For the year ending February 28, 1913, the rain furnished 4·663 lbs. and the snow 1.479 lbs. per acre.

The Water-supply of the Farm Homestead.—Examination of waters from farm wells has from the first been a feature of the work of this Division. It has been one of great usefulness and has lead to a marked improvement in the water used on the farm and, in the creamery and cheese factory throughout the country. During the year 279 samples of such waters were examined and reported on.

Meat Inspection Division, Health of Animals Branch.—The work in connection with this Division consists in the chemical and microscopical examination of samples collected under the direction of the Veterinary Director General at the various packing and canning houses in the Dominion. During the year 185 such samples have been analysed and reported on. They comprised preserved meats, lard, beef, fat, tallow, fillers for sausage, dye stuffs and colouring matters, preservatives and pickling solutions, spices and condiments. This work constitutes a control of great value in connection with the wholesomeness of the products of Canadian packing houses and canneries.

A number of investigations, more or less closely related to agriculture and rural economy, have been referred, as in past years, to this Division by several departments of the government service having no provision for chemical work. In this way, valuable assistance has been given towards the solution of several problems of wide importance.

DIVISION OF ENTOMOLOGY.

The work of the Division of Entomology has comprised: The administration of the regulations under the Destructive Insect and Pest Act which includes the inspection and fumigation of nursery stock and other vegetation entering Canada, and the suppression of the brown-tail moth in the provinces of Nova Scotia and New Brunswick; the administration of an appropriation for the care of the Indian orchards in British Columbia; the carrying on of investigations at field laboratories located in certain of the provinces; the investigation of forest insects and their depredations; the answering on inquiries and the giving of advice concerning insects affecting farm, orchard and garden crops, forest and shade trees, live stock, grain and stored products and public health; the identification of collections of insects for individuals and educational institutions and the classification and arrangements of our own entomological collections; the carrying on of investigations upon the life histories of insects and the study of binomical questions in relation to the problems of insect control.

Under the Destructive Insect and Pest Act upwards of four million imported trees and plants were inspected. The necessity and value of this inspection was indicated during last year's work by the discovery by our officer at Vancouver of egg masses of the gipsy moth on an evergreen shrub imported from Japan. Several hundred caterpillars which we obtained from these egg masses, sufficient to start a serious outbreak of the insect. The increase in the number of trees imported into western Canada and which require fumigation is now so considerable as to necessitate the provision of an additional port of entry and fumigation station at North Portal, Sask. Additional precautions to prevent the introduction of the gipsy moth on forest products from the infested New England States were taken by requiring shipments of such products to be accompanied by a certificate of inspection. In order to prevent the introduction

of the Mediterranean Fruit Fly the importation of non-canned fruit from the Hawaiian Islands was prohibited. The Brown-tail Moth constitutes a serious problem in eastern Canada. While we are succeeding in maintaining control of it in Nova Scotia, the infested area in New Brunswick was found to be about 6,400 square miles in extent although only 2,452 winter webs of this insect were collected in that area. Efforts are now being made to introduce and establish in Canada certain of the European parasites of the Brown-tail and Gipsy Moths which have been successfully imported from Europe and colonized in the New England States Department of Agriculture whose co-operation in this effort I am pleased to gratefully acknowledge.

During the year a very distinct advance in the work of studying injurious insects and the methods of control was made by the establishment of entomological laboratories in different parts of Canada where serious insect pests occurred. By these means investigations of decided practical importance on insects affecting fruit trees and field crops were carried out in Nova Scotia, New Brunswick, Quebec, Ontario, both in the Niagara fruit district and in the western part of the province, and in British Columbia. The officers in charge of these laboratories were able to render valuable assistance to the farmers and fruit growers by giving addresses at meetings and personal advice. Owing to a serious outbreak of cutworms in southern Alberta which resulted in the destruction of about thirty to forty thousand acres of grain, arrangements have been made to carry out investigations in that region.

Considerable attention has been devoted to the study of insects affecting forest trees. The Assistant Entomologist in charge of forest insect investigations made visits to the Riding Mountains Forest Reserve in Manitoba, the Algonquin National Park and certain parts of Quebec for the purpose of studying insect damage. The fact that this aspect of forest protection has not been previously studied in Canada renders a large amount of preliminary work necessary. An attempt is being made to introduce and establish the useful parasitic enemies of the Larch Sawfly from England.

The distribution of the Rocky Mountain Spotted Fever Tick was studied, and it was found to be fairly common in southern British Columbia. Investigations on the Stable Fly, which has been shown to be a possible disseminating agent of infantile paralysis (Poliomyelitis), were also commenced, and a vigorous campaign against the House Fly was continued.

In August the Dominion Entomologist attended the International Congress of Entomology at Oxford, England, and afterwards attended a conference at the Colonial Office at which a scheme was worked out for Imperial co-operation in preventing the spread and furthering the investigation of injurious insects throughout the Empire. An Imperial Bureau of Entomology has been formed in London, and it is to be maintained by the Dominions, Colonies and the Colonial Office. By the collection of information and the co-ordination of effort it will undoubtedly be of material assistance to the various parts of the Empire in their efforts to control and prevent the introduction of insect pests. The Dominion Entomologist and his assistants have made visits to various provinces for the purpose of investigation and to deliver addresses before agricultural and other associations during the year.

DIVISION OF BOTANY.

This Division deals annually with numerous enquiries received from farmers who seek advice concerning the identification and eradication of noxious weeds, and who present their requests for information about diseases affecting their various crops. Among the most important diseases known are the various grain smuts, which annually cause an immense loss. It has recently been estimated that the losses in Canada from smut diseases of grain amount to some $16,000,000 per annum. During the past few years the staff of this Division has carried on researches into certain points of the life history of smut fungi causing these diseases, with the view of ascertaining and proving the best methods of control. A bulletin dealing with this subject is now being prepared and will shortly be ready for distribution.

The potato crop of the Dominion is also subject to a large number of specific maladies, some of which cause considerable damage to the growing crop, while others destroy from 5% to 30% of the potatoes after they are placed in storage. Considering the total harvest of potatoes during 1912, which is valued at $32,173,000, these losses are considerable. In order to investigate the question of a satisfactory control of such destructive diseases the Dominion Botanist has carried out during the last season an experiment on a field of four acres with the object of providing potatoes free, or as free as possible, from disease. The results of this experiment, which will be carried on for a number of years, will eventually be published, and it is hoped will result in an improvement in the practice of potato growing.

Careful inspection is being carried on throughout the more important potato growing centres, with a view to guarding this industry from an invasion of potato canker, a destructive disease of European origin. Every precaution has been taken to prevent the introduction of this disease by means of seed potatoes imported from England. The fact that this desease was discovered early in the spring of 1912 in some shipments from England made it necessary, in order to protect the Canadian growers, that the importation of potatoes from Europe should be prohibited by an Order in Council. The danger, however, has by no means passed, and it is very desirable that the farmers join the Department in its efforts and immediately communicate with the Dominion Botanist in case any suspicious signs become noticed.

Another phase of the work of this Division is the investigation of diseases affecting various orchard and fruit crops. In order to pay the closest attention to the practical means of control of various destructive diseases, I have caused a field laboratory to be established in St. Catharines. The work of this laboratory is under the direction of the Chief Officer and is in charge of a competent pathological assistant who devotes his time to a close study of the particular needs of the fruit growers in this important district. While, of course, during the short time of the establishment of this laboratory no definite conclusions have been arrived at as regards the various diseases which are studied, it has been shown by the keen interest taken by the fruit growers in this work, and by its progress, that the laboratory serves a very desirable purpose. It is a great advantage to be able to carry out experiments of this kind in the orchards themselves, instead of conducting them in a central laboratory where the conditions

for investigation are very different. Besides, the daily intercourse of the trained specialist with the fruit growers is found very instructive. It is hoped that the work in this direction will be considerably extended.

The scientific laboratories of the Division at Ottawa being well equipped for researches of mycological and bacteriological character, have been used this season for conducting an inquiry into the bacterial contamination of the milk produced at the Central Farm. After a close study of the sources of contamination, and the elimination of the same as far as practicable, the purity of the milk not only came up to the highest standard, but surpassed any natural milk produced.

The usual progress was made in adding to the various scientific collection of the Division. The usefulness to the general public of the Botanic Garden which is now attached to this Division has been greatly increased by the display of conspicuous labels on the various trees and shrubs and other plants.

Part of the work devoted to the improvement of fodder plants and the experimental plots has been transferred to the newly formed Division of Agrostology. The work of the Division of Botany as a whole may be considered as having made important progress in its varied phases.

POULTRY DIVISION.

In conducting the experimental work of this Division, during the year, as in many years past, the object was to obtain such information as would aid the farmers of the country in making the poultry branch of their farm work a profitable one. With this object in view, the experimental effort was directed to the feeding of such rations as were likely to secure a profitable egg yield during the winter season—the period of highest prices—and later in the year, the hatching of a number of chickens, which would make a superior quality of poultry.

The experimental work of the last year went to confirm conclusions arrived at in previous years, particularly the two following respects, viz.:—

That the better quality of poultry can only be produced by rearing chickens of the best utility types. In order to have the best results, it was clearly shown that chickens require to be carefully looked after, and regularly fed, from time of hatching to the saleable age. It is to be borne in mind that chickens which are allowed to pick up their own living, a practice too common among many poultry breeders, do not make the best specimens.

The call of the cities is loud and insistent for strictly new laid eggs, and for which the consumers are willing to pay the best price. By the establishment of egg circles in different parts of the country, it is hoped that farmers will be aided to more immediately reach the consumer and so obtain the best value for his product. A better price should certainly prove a greater incentive to production. For the better quality of poultry there is also a great demand at paying figures.

In the report of the Poultry Division of the Central Experimental Farm for 1912 will be found detailed information as to prices, purchasers, etc. Producers are also shown the best means of obtaining both eggs and poultry at the proper seasons.

A feature of the experimental work of the past year was continued trials of the fresh air, or open front poultry houses, and which method decidedly showed its superiority to the closed or partly warm system of keeping poultry, so much in vogue during past years. There are several styles of fresh air houses, such as the Cotton Front House, the Woods, and the Tolman, all of which have shown more or less merit, but none has given more satisfaction than the Cotton Front house, which is cheap and easily constructed. Further experiments in this and other styles of poultry houses are looked forward to with interest.

A large and rapidly growing correspondence is proof of the greater interest that is being taken in the poultry branch of agriculture throughout the country.

THE TOBACCO DIVISION.

During the year the Tobacco Division was added to the Dominion Experimental Farm system.

Tobacco-growing was carried on during the season at Ottawa and at Harrow in Ontario, and at St. Jacques l'Achigan and Farnham in Quebec.

The plantation at Ottawa is about 1½ acres in extent, a considerable portion of which is used for the production of seed, which is sent out to growers anxious to try the best varieties. The demand for these samples is constantly growing, some 3,600 packages having been sent to all parts of Canada during the year.

At St. Jacques l'Achigan, a fairly satisfactory crop was harvested, consisting of Comstock, Cuban and Aurora.

At Farnham, it being the first year that tobacco has been grown on this newly-acquired property, its production was somewhat difficult, owing to the poor preparation of the soil, and the returns were not very good in some cases. Very remunerative crops of Big Ohio and Sumatra, however, were obtained. Other varieties grown were Yamaska, Havana Seed Leaf, Brazil, Comstock Spanish, Rusticas and Cuban.

At Harrow, Burley is the principal variety grown, and a very satisfactory amount per acre was harvested.

DIVISION OF FORAGE PLANTS.

Since the establishment in the spring of 1912 of the special Division of Forage Plants it has been possible to pay more attention to the work with Forage Plants and Forage Crops than heretofore. The work of the Division of Forage Plants includes at present work with grasses, clovers and other leguminous forage plants, field roots and Indian corn.

The comparative tests of different varieties of the above groups which have been conducted during a number of years have been continued.

In addition to the comparative tests of old so called varieties of different grasses and clovers a new line of work has been started: improvement by means of selection of individual plants.

During the summer of 1911 it was observed that there existed within Red Clover, Alsike Clover and Timothy a remarkable individual variation as to the characters of the seed. While in a given plant all seeds formed proved to be of the same general size, colour, shape, etc., the differences between the seeds produced by different plants proved to be extremely great. The practical outcome of the existence of different seed types as indicated above, makes it likely that it might be possible by proper breeding varieties of clovers and grasses with a distinct type of seed, which could be checked as to trueness of name from their seeds.

With a view of producing high yielding strains of Timothy characterized by a certain seed type the seed of a number of especially selected plants has been sown in flower pots separately. From each lot of seedlings thus obtained a certain number has been selected and planted in the field for further study. Over twelve hundred individual plants of Timothy are thus grown at present.

Similar work with Red Clover and Alsike Clover has also been started, though on a smaller scale.

EXPERIMENTAL STATION, CHARLOTTETOWN, P. E. I.

Seeding was backward in Prince Edward Island in 1912, commencing at the Station on May 11 and growth was slow until the end of June. Heavy rains in July and August injured much of the hay crop and also the early grains. Later grains matured very slowly, but were well filled. Potatoes were a good crop, as were turnips and carrots. Corn, mangels and sugar beets were rather below the average in yield.

Some forty acres, made up of several small adjoining properties, were added to the Station.

A sheep barn 100 feet by 20 feet and two portable poultry houses were built.

EXPERIMENTAL STATION, FREDERICTON, N.B.

The properties purchased for this Station, about 460 acres in area, are within the limits of the City of Fredericton and front on the St. John river. The Station is crossed by the C.P.R. and the St. John Valley R.R.

Considerable clearing and some ditching were done in the autumn of 1911 and during the winter. The work of getting the land in shape for crops, erecting buildings, setting out orchards, etc., will be continued this season.

EXPERIMENTAL FARM, NAPPAN, N.S.

The spring at Nappan was dull and cold, with some frosts in April. May was cold and dry until the last week, when the rainfall was heavy. Seeding was not general until about the 15th of that month.

From July 22 until the end of August, rainfall was almost continuous, making haying almost impossible, and greatly injuring the grain and root crops. The remainder of the season was suitable for harvesting and fall work, no frost being registered until Nov. 30.

Grain and roots were a fairly good crop, but corn was very poor, owing to the cool, wet weather.

EXPERIMENTAL STATION, KENTVILLE, N.S.

This Station has been increased in area by the purchase of 44 acres, making its total area 294 acres at the present time.

During the past year eight buildings were put up, namely a barn, root house and silo, a carriage house, a dairy, a greenhouse, a poultry building, a double tenement house, a foreman's house and a house for the Superintendent. These are all wooden buildings, most of the material for which was cut on the Station.

Clearing has been actively carried on and also grading and road-making. An area of some 100 acres is taken up by a ravine about one and one-fourth miles long and heavily wooded. This will be reserved as a natural park.

About eighteen and one-half acres of orchard have been set out.

EXPERIMENTAL STATION, STE. ANNE DE LA POCATIERE, QUE.

The season at this Station was very cold and wet, and crops, which were harvested with great difficulty, were, as a rule, poor in quality and low in yield.

No suitable buildings have yet been erected here, those which were on the Station when purchased having been made to serve for the time being, but it is planned to build during the coming season.

Considerable machinery has been purchased, and five horses are employed at present for the farm work. Water has been piped to the farm and will be laid to each of the buildings when erected. Roads along the farm frontage have been improved and a large amount of fencing and draining done. Stone has been gathered from the fields for use in building operations. No experimental work was carried on here this year.

EXPERIMENTAL STATION, CAP ROUGE, QUE.

The season of 1912 was a very unfortunate one, and all crops except hay were below the average.

Continual rains during May and the first half of June delayed seeding, and most of the oats were sown during the first half of the latter month. This was followed by a drought until the end of July. Wet weather during August, September and October retarded haying and harvest and injured the quality of the grain, much of it being rendered unfit for seed. Corn was practically a failure.

Seven acres were added to the area under orchard this year. A granary was erected and also a workshop. Work was commenced on a water system for the farm buildings. Some seven acres were stumped and ploughed, about 8,000 feet of tile drain laid and the ditching done for 3,000 feet more.

EXPERIMENTAL FARM, BRANDON, MAN.

The growing season at Brandon was one of extremes, wet and cold delaying seeding, while June was extremely dry. Wet weather then prevailed until the end of September, greatly hindering harvesting and threshing and lowering the quality of the grain.

Experimental work with different rotations and with various cultural methods was continued, and also experimental feeding of steers and lambs.

No new buildings were erected here this year.

EXPERIMENTAL FARM, INDIAN HEAD, SASK.

As a rule, grain crops gave good returns. Fall wheat, which does not usually succeed here, gave a good yield, though the sample was only fair.

During the year a larger horse stable, to replace the one destroyed by fire, was erected, and a new silo put up. A granary was also built, and an implement shed for the larger machines. Before winter set in, a beginning was made on the cement work for a barn.

EXPERIMENTAL STATION, ROSTHERN, SASK.

Seeding began here on April 10, and crops did well until dry weather set in early in June. Later rains caused fresh growth, with consequent uneven maturity at cutting time. The wet weather of August, September and October hindered harvesting, but the long autumn enabled threshing to be carried on throughout November.

The cultural and rotation work begun in 1911, was got more fully under way.

A contract was let for a new barn at this Station and some progress was made with the cement work before winter set in. The building will be completed during the coming summer.

EXPERIMENTAL STATION, SCOTT, SASK.

Seeding operations commenced on April 13. Weather conditions during the early part of the season were favourable, on the whole, but heavy rains in July caused a second growth resulting in much immature grain. The season for fall work was short, ploughing being stopped by frost on October 31.

The area devoted to horticulture was enlarged and considerable planting, including a new orchard, was done.

An implement shed, 70 feet by 25 feet was put up.

EXPERIMENTAL STATION, LACOMBE, ALTA.

The first seeding was done at Lacombe on April 15, growth was rapid but maturity and harvesting were delayed by wet weather. The precipitation for the year, 23·64 inches, was the heaviest on record.

During the year 360 acres were added to the Station, which now comprises about 520 acres in all. This additional area will furnish much needed room for horticultural, cereal and field work and will also provide range and forage for live stock, which have not hitherto been kept. Eighteen Aberdeen-Angus and twelve Holstein-Friesian cattle were purchased. The total number of cattle on the Station at present is 63.

A commencement was made in establishing a poultry plant and experiments were conducted in the fattening of steers, both with and without shelter, with satisfactory results.

Ten mares were purchased during the season and work in horse-breeding will be carried on.

In connection with the work with cattle, a dairy barn, a beef barn, a storage barn, a dairy and an ice house have been erected, as well as a cottage for the head herdsman.

EXPERIMENTAL STATION, LETHBRIDGE, ALTA.

The season of 1912 opened early at Lethbridge and the first seeding was done on April 1. The precipitation during April, May and June was very light so that crops suffered, especially winter wheat. On the irrigated portion of the Station, water was applied in some cases, as early as May. July, August and September gave a rainfall above the normal and there was some difficulty in curing the alfalfa.

Considerable damage was done in the Lethbridge district by cutworms. Methods of combatting this trouble are to be tested this year by entomologists sent out from the Central Experimental Farm.

As usual, experimental crop production work was carried on, both on the irrigated and non-irrigated portions of the Station. Feeding experiments were conducted with steers and lambs, with good results.

EXPERIMENTAL FARM, AGASSIZ, B.C.

The season of 1912 opened quite favourably, and most of the seeding was completed by the end of April. May was a good growing month, and the hay crop in June was saved in good condition Harvesting commenced on the Experimental Farm on July 29. Before the grain could be hauled in, wet weather set in, and it was the latter half of August before the crop could be brought from the fields. Although there was much rainfall during the remainder of the growing season, fall work was left in good shape, there being but a touch of frost and no snow during the month of November. The yields of roots and potatoes were good, although the latter were somewhat affected with blight.

The condition of the live stock throughout the year was excellent.

The buildings put up the previous year were painted, the water system was completed, and the dairy building finished, and an ice house built in connection with it. A poultry laying house was erected, as well as a building for entomological work. A boarding house for the men employed on the Farm has been almost completed, and will be ready for occupancy in a month or six weeks.

EXPERIMENTAL STATION, INVERMERE, B.C.

During the year preliminary work was put under way to get the land ready for crop and the application of irrigation. Thirty-five acres were cleared ready for crop.

A combination barn, stable and granary was built, 46 x 30 feet.

Some twenty-six acres were sown to oats, sixteen to red clover, and four to alfalfa. Two acres of potatoes gave a good return.

Implements and horses have been purchased, and the work of planting and seeding, clearing, etc., will continue as soon as possible this spring.

EXPERIMENTAL STATION, SIDNEY, B.C.

Clearing work has been carried on vigorously at Sidney, and some 54 acres of the most heavily timbered land on the Station have been cleared and fenced. Some crop will be put in during the coming season. An avenue 150 feet in width has been laid out along the north side of the farm, extending from the Victoria and Sidney road to Bazan Bay. It is expected that horticultural work will take a prominent place at this Station, and plantations are already being set out. No buildings have yet been erected.

SUBSTATIONS.

Experimental work was carried on, in addition to that done at the Experimental Farms and Stations proper, at several points in the more northerly parts of the prairie provinces, namely at Fort Vermilion in the Peace River district, Alta., at Grande Prairie, Grouard, and Athabasca Landing, also in Alberta, and at Forts Smith, Resolution and Providence, in the Mackenzie district. Some work in 'dry-farming' was also conducted at the Harper Ranch, Kamloops, B.C. With the exception of the last-named, where the season was very unfavourable, the results obtained this year were very satisfactory, having in view the many difficulties with which the experimenter must contend in these northern localities.

CROPS OF THE DOMINION.

The season of 1912 cannot be said to have been a good one in most parts of Canada. The spring was generally backward and the weather up to the end of May cold and wet, especially in the provinces of Nova Scotia, New Brunswick and Quebec. Fall wheat in Ontario and the West suffered considerably from winter-killing. The unfavourable conditions of May were continued throughout June in eastern Canada and growth was slow as a result. In the west the month was hot and dry, but rains in July improved the prospects greatly. During August and September, wet weather was prevalent throughout the Dominion and harvesting operations were greatly delayed. As late as September 30, large areas of grain both in the east and in the west, were yet uncut or were still in the stook. Damage was done by second growth causing uneven ripening, and by sprouting.

Roots and Potatoes showed a larger yield than that of the previous year, while hay and clover was smaller, due, to a great extent, to the weather being unfavourable at cutting time.

The following table gives the areas and final estimates of yield and value of the principal field crops, as given in the Census and Statistics Monthly for December, 1912.

Areas and Estimates of Yield and Value of Field Crops, 1912.

Crops.	Area.	Yield per Acre.	Total Yield.	Weight per Measured Bushel.	Average Price.	Total Value.
	Acres.	Bush.	Bush.	Lb.	$	$
Canada—						
Fall wheat	781,000	20·99	16,396,000	60·21	0·84	13,735,000
Spring wheat	8,977,400	20·37	182,840,000	58·90	0·60	109,787,000
All wheat	9,758,400	20·42	199,236,000	59·22	0·62	123,522,000
Oats	9,216,900	39·25	361,733,000	35·40	0·32	116,996,000
Barley	1,415,200	31·10	44,014,000	47·59	0·46	20,405,000
Rye	136,110	19·06	2,594,000	54·84	0 73	1,904,000
Peas	250,820	15·04	3,773,500	56·88	1·26	4,771,800
Buckwheat	387,000	26·34	10,193,000	47·62	0 62	6,337,000
Mixed grains	522,100	34·38	17,952,000	44·48	0 59	10,690,000
Flax	1,677,800	12·92	21,681,500	54·88	0 91	19.626,000
Beans	59,800	17·40	1,040,800	59·05	2·20	2,291,500
Corn for husking	292,850	56·58	16,569,800	55·67	0·62	10,325,400
Potatoes	472,400	172·19	81,343,000	.....	0·39	32.173,000
Turnips, etc.	217,400	402·51	87,505,000	.....	0 23	20,713,000
		Tons.	Tons.	.....	Per Ton.	
Hay and clover	7,633,600	1·47	11,189,000	.....	11·07	124,009,000
Fodder and corn	287,740	10·26	2,858,900	.....	4·74	13,557,500
Sugar beets	19,000	10·74	204,000	.....	5·00	1,020,000
Alfalfa	111,300	2·79	310,100	.....	11·65	3,609,900

For the purpose of comparison, the estimate from the same source is given for the previous year, 1911. The tables show that, in 1911, from a total area under crop of 32,404,110 acres, a harvest was reaped which, at local market prices, was worth $558,-099,600. In 1912, from a total area under field crops of 32,449,000 acres, a return was obtained, which, on the same basis of valuation, was worth $511,951,000.

Crops.	Area.	Yield per Acre.	Total Yield.	Weight per Measured Bushel.	Average Price Per Bush.	Total Value.
	Acres.	Bushel.	Bushel.	Lb.	$	$
Fall wheat	1,172,119	22·19	26,014,000	61·12	·825	21,461,000
Spring wheat	9,201,839	20·63	189,837,300	59·21	·611	117,106,000
Oats	9,219,920	37·76	348,187,600	34·65	·364	126,814,000
Barley	1,401,352	28·94	40,611,000	46·97	·566	23,004,000
Rye	142,571	18·89	2,694,400	55·11	·771	2,086,000
Peas	287,135	15·80	4,536,100	59·58	1·025	4,647,700
Buckwheat	359,367	22·69	8,155,500	47·32	·611	5,232,000
Mixed grains	559,991	29·78	16,679,000	45·10	·607	10,127,000
Flax seed	682,622	11·52	7,867,000	53·29	1·507	11,855,000
Beans	60,630	19·06	1,155,600	58·30	1·920	2,219,000
Corn for husking	316,104	59·39	18,772,700	50·31	·648	12,171,900
Potatoes	459,097	143·82	66,023,000		·60	39,358,000
Turnips, &c	227,141	373·92	94,933,000		23	19,541,000
		Tons.	Tons.		Per Ton.	
Hay and clover	7,903,242	1·61	12,694,000		11·55	146,596,000
Fodder corn	285,321	9·92	2,577,200		4·84	12,469,000
Sugar beets	20,878	8·66	177,000		6·58	1,165,000
Alfalfa	101,781	2·21	227,900		9·868	2,249,000

NOTE. The figures of flax seed represent revised estimates published in the Census and Statistics Monthly of April, 1912.

LIVE STOCK.

It will be noted from the table given below that the estimated numbers of live stock in the Dominion, as given in the Census and Statistics Monthly for July, 1912, show decreases except in the cases of horses and dairy cattle. Figures are given for the five years 1908-12. The condition of all classes of live stock was excellent, the figures given being in comparison with 100 per cent as representing perfect condition.

Statistics of Live Stock on Farms, 1908-1912.

Live Stock.	Number of Animals.					Per cent of Standard Condition June 30, 1912.
	1912.	1911.	1910.	1909.	1908.	
Canada—						
Horses	2,336,800	2,266,400	2,213,199	2,132,489	2,118,165	97·43
Milch cows	2,890,100	2,876,600	2,853,951	2,849,306	2,917,746	98·26
Other cattle	4,093,600	4,210,000	4,260,963	4,384,779	4,629,836	98·33
Sheep	2,360,600	2,389,300	2,598,470	2,705,390	2,831,404	97·55
Swine	2,656,400	2,792,200	2,753,964	2,912,509	3,369,858	96·09

HEALTH OF ANIMALS BRANCH.

The resignation of Dr. J. G. Rutherford, C.M.G., Veterinary Director General and Live Stock Commissioner having gone into effect with the close of the last fiscal year, the conduct of the Health of Animals Branch devolved upon Dr. George Hilton, Chief Veterinary Inspector, until the appointment of Dr. F. Torrance as Veterinary Director General on August 1st, 1912.

The officers of the Branch have energetically handled any outbreaks of the diseases enumerated in the Animal Contagious Diseases Act which occurred in Canada, in addition to the work of inspecting every animal entering Canada and the testing with mallein of all horses not accompanied by satisfactory certificates of such test. The supervision of the cleansing and disinfection of stock cars at many large traffic centres has also been undertaken.

Owing to the prevalence of Foot and Mouth Disease in the United Kingdom, it was deemed advisable to refrain from issuing permits for the admission of ruminating animals and swine therefrom for a very considerable portion of the year, consequently the number of pure bred cattle and sheep entering Canada at Quebec was very small. It has recently been found possible to remove this restriction, and importations will be allowed to enter after the close of this fiscal year on March 31.

Glanders is well under control in all parts of the Dominion except the Prairie Provinces, where, however, a determined effort is being made, with the aid of a large force of Inspectors, to bring this most troublesome disease to a more satisfactory basis. The rapid growth of the settlement over a large area and the facility which exists for the coming in contact of infected animals with those showing no evidence of disease but affected with glanders, are great factors to be taken into consideration. That the efforts of the Branch in Saskatchewan, which has always been the most difficult Province to deal with, are being crowned with success, may be gathered from the fact that the number of horses slaughtered has dropped from 722 the previous year to slightly over 400 for the past twelve months. In Alberta there is an increase, due largely to the increased settlement and the larger staff detailed to thoroughly cope with the disease. So many range horses, formerly running on the open prairie, and if suspected, tested en bloc, are now sold to and distributed among the other horses of settlers that, in tracing up contact cases it is necessary to devote much more time and more Inspectors to the work, with the probability of finding more extensive infection than was the case under range conditions.

No Glanders was discovered in British Columbia, while in the province east of Saskatchewan less than sixty infected animals were slaughtered.

Dourine or Maladie du Coit has also occupied the attention of our Veterinary Inspectors in the Prairie Provinces, every possible precaution being taken to ensure rapid quarantine of all suspected cases of this most insidious disease. The number of horses quarantined is somewhat large as compared with those slaughtered, but it has been deemed advisable to hold all contact animals until their freedom from disease is clearly demonstrated. The number of animals slaughtered was, as last year, less than 20, while over 200 were quarantined. A modern Biological Laboratory has

been constructed at our Dourine Experiment Station at Lethbridge, which has been under the able direction of Dr. Watson, one of the Pathologists of the Branch, for many years past, and the work now being conducted there is of the greatest possible benefit in the detection and increasing our knowledge of this malady.

Mange of Horses and Cattle has been given the special attention of a corps of range riders in Alberta and Saskatchewan, in addition to that of the Veterinary Inspectors under whom they work. A most gratifying diminution in the numbers of cattle and horses found affected can be recorded, considerably less than half the total of horses and cattle quarantined as diseased in the previous twelve months being discovered. The number of animals quarantined as contacts also underwent a a correspondingly gratifying diminution of over 50 per cent.

The conditions existing in the mange area in British Columbia are now sufficiently satisfactory to admit of the removal of the present restrictions, and steps have been taken with that end in view.

Sheep Scab is now practically non-existent, only one outbreak being discovered during the past year, that being in the province of Manitoba, where 62 animals were found to be affected. A thorough inspection of all sheep in the locality was made and steps taken to ensure the dipping of the animals and disinfection of the premises. Many thousands of sheep were imported in the western provinces and a thirty day quarantine was imposed on all those entered except for immediate slaughter.

Hog Cholera has, I regret to state, continued to engage the attention of my officers in western Ontario and the western provinces, eastern Canada still remaining free from the ravage of this disease. Nearly 5,000 hogs were slaughtered in western Ontario, as compared with 1,500 the previous year, while in Saskatchewan the number increased from 158 to nearly 1,400. There were satisfactory decreases in Manitoba from 2,218 to 250, and in Alberta from 316 to 150; but in British Columbia the number slaughtered mounted from 58 to 1,550. Every effort has been made to localize the outbreaks, and rigid quarantines have been imposed on surrounding premises.

It has also been deemed advisable to prohibit the importation, manufacture or use of hog cholera serum in Canada. Every effort is being made to advise hog owners to thoroughly cook garbage before feeding, and the amendment of the Hog Cholera Regulations last year with a view to restricting the feeding of raw garbage has been made thoroughly known and owners advised accordingly.

Rabies has made its appearance in Ontario and Alberta, and stringent quarantines of suspected and contagious premises and dogs thereon have been made. Nearly all the quarantines so imposed have now been raised, and it is hoped that no further outbreaks will occur. 112 premises were quarantined in Ontario, as compared with 123 of the previous year, and 41 were placed under restriction in Alberta.

Tuberculosis has only been dealt with by the testing of cattle for import or export, and those herds placed under the control of the Department. 2,700 tests were applied

as compared with 1,198 of the previous year the percentage of reactors being only 1% as compared with a previous 5%. 3,500 tests were made by private practitioners, with tuberculin supplied by the Department against 2,238 the previous year, the percentage or reactors obtained being 4% as compared with 11%.

Dr. Hadwen has been engaged in the work of investigating the nature and cause of Redwater among cattle in British Columbia, and is stationed at Agassiz where a Branch Experiment Station has been established.

A complete and up to date Laboratory has also been added to the equipment of the Dourine Experiment Station at Lethbridge, Alta., where much good work is being done in connection with that insidious disease.

The Quarantine accommodation along the boundary has been improved as much as financial conditions would permit, and the work done by the Veterinary Inspectors at the numerous Quarantine ports has been most effective in keeping out contagious disease.

Blackleg and Anthrax Vaccines have been prepared at the Health of Animals Branch, Biological Laboratory, and sold to the public at five cents per dose. A large demand for the former vaccine has been maintained, while fortunately the absence of Anthrax has not necessitated numerous applications for the vaccine in that connection.

THE MEAT INSPECTION DIVISION.

The Meat Inspection Division of this Branch is growing rapidly and carrying on its work effectively with little adverse criticism, the trade in meat and meat food products adjusting itself to the requirements of the Act.

The tremendous increase in the canning of poultry may, I think, be attributed to the protection afforded by inspection.

The staff of Inspectors has been slightly augmented to meet the needs of the service, due to additional establishments being placed under inspection and a gradual improvement in the methods of carrying on the work. The general health and conduct of the officers have been good considering the nature of the conditions under which they labour.

Our exports of meats for the year will show a decrease while our imports are very largely increased, a natural result of the growth in population and decrease in production in the older settled parts of the Dominion.

Prices for the different meat food animals have been good and under present conditions, due to a shortage of live stock, should remain so.

The very limited supply of beef cattle is to be regretted, and this will, no doubt, continue for some time. To a certain extent this condition may be due to the enormous slaughter of calves, the meat of which, while palatable, is not of the highest food value.

The work of the Branch in the supervision of establishments engaged in the canning and preserving of fruits, vegetables and milk, has increased to such an extent as to require the appointment of a number of short term inspectors who, in conjunction with our regular officers, are exceedingly busy during the fruit and vegetable season. The many improvements which may be observed in the sanitary conditions and the methods of handling the raw and prepared products amply justify the expenditure entailed.

PUBLICATIONS BRANCH.

The Publications Branch deals with the International Agricultural Institute, to which Canada is one of the adhering countries, and with the distribution of the publications issued by the Department.

THE INTERNATIONAL AGRICULTURAL INSTITUTE.

During the year the International Agricultural Institute at Rome continued to issue its three Bulletins: 'Bulletin of Agricultural Statistics,' 'Bulletin of Agricultural Intelligence and Plant Diseases,' and 'Bulletin of Economic and Social Intelligence.' In many ways these Bulletins have been considerably improved.

The Statistical Service of the Institute showed a marked advance over the previous year. A number of countries sent in their preliminary estimates of cereal production a month earlier than before, and reports of acreage and condition were more regularly received. The Russian government has promised to conform hereafter to the Institute's plan and issue its preliminary estimate one month before harvest. At the request of the Institute the adhering Governments have extended their statistical services so as to furnish data concerning flax, sugar beet, tobacco, cotton, silk and wine, and the reports on these products form a valuable part of the Bulletin of Agricultural Statistics. Special attention has been given to official live stock statistics, and the result of live stock censuses in different countries have been published and measures for further development of this service are to be discussed at the forthcoming General Assembly. Since March, 1913, the statistics of imports and exports of cereals, visible supply and prices, published hitherto in the Bulletin of Commercial Statistics, are included in the Bulletin of Agricultural Statistics.

A new feature of the Bulletin of Agricultural Intelligence and Plant Diseases is the inclusion of original articles specially written for the Bulletin by authorities on different subjects relating to agriculture. Of these articles the following might be mentioned: 'The Recent Development of Cattle Breeding in Germany,' by Dr. Hansen; 'Mechanical Cultivation,' by Max Ringleman, Director of the Machine Trial Station in Paris; 'The Basis of an International Agreement for the Control of Plant Diseases,' by Giuseppe Cuboni, Director of the Royal Station of Plant Pathology, Rome.

During the year the Institute issued several valuable special publications. Among these are 'The International Year Book of Agricultural Statistics,' 'The International Year Book of Agricultural Legislation,' 'An Outline of European Co-operative Credit Systems,' and 'A Study of the Census Returns of the Agricultural Population, the Wages of Rural Labour, and the Currents of Emigration in the Several Countries.'

The circulation of the Canadian Bulletin 'The Publications of the International Agricultural Institute', issued monthly by the Canadian Commissioner, increased during the year through individual applications by over 2,500. This Bulletin has been issued since October, 1910, in order to give due publicity to the information con-

tained in the original Institute Bulletins of which only a limited number are received by the Canadian Office. In it are reproduced the articles in the Bulletins of Agricultural Intelligence and Economic and Social Intelligence which are deemed of interest and value to Canadian readers, summaries being made of those articles which are too long for reproduction. In this way from forty to seventy-five articles from the original Bulletins are republished in each number of the Canadian Bulletin. Among the more important of these is an article on the 'Present State of Dairy Cow Testing' giving a description of the methods employed in Milk and Butter tests in Canada, United States and several European countries, the origin and tests of the cow-testing associations and their recent development. 'The Californian Co-operative Fruit Growers' Societies' is the subject of an article in which the benefits to be derived from co-operation among farmers are clearly shown. In an article on the 'International Agricultural Institute and the Organization and Work of the Canadian Office', Mr. T. K. Doherty, the Canadian Commissioner to the Institute, gives a complete account of the work of the Canadian Office since its inception in 1909, as well as a statement of the operations in the Institute and its programme for the future. In view of the great interest in agricultural credit taken by farmers throughout the Dominion, in the February, 1913, number of the Canadian Bulletin special attention was given to Co-operative Credit. An article on Rural Banks in Germany giving a detailed account of the Raiffeisen system of Agricultural Credit was reproduced as well as a description of the Co-operative Land Credit Societies 'Landschaften' and 'Ritterschaften'. The number also contains a summary of the Report of Mr. Myron T. Herrick, United States Ambassador at Paris, on European Land and Agricultural Credit Systems together with President Taft's letter on the subject to the Governors of the States. Other important articles published during the year in the Canadian Bulletin were: 'Report on Dry-Farming', by M. E. de Miklos, Delegate for Hungary on the Permanent Committee of the Institute, and 'The Protection of Birds', by the same author. Considerable attention was given to rural economics especially as regards methods of bookkeeping for farmers, a subject exciting great interest among scientific agriculturists at the present time. Besides these were many summaries of articles and bulletins on Cultivation of Different Crops, Rural Hygiene, Agricultural Meteorology, Physics, Chemistry and Microbiology of Soil, Manures and Manuring, Agricultural Machinery and Implements, Agricultural Botany, Live Stock, Apiculture, Plant Diseases and Noxious Insects, Agricultural Co-operation and Associations, Agricultural Insurance and other subjects.

The first part of the Canadian Bulletin is devoted to agricultural statistics taken mainly from the Institute Bulletin of Agricultural Statistics. The figures which in the original Bulletin refer to hectares and quintals are converted into acres and bushels for the convenience of Canadian readers. A summary of the condition of crops as reported by the Institute is always given, and the tables of area and production reproduced.

On the date of the publication of the Bulletin of Agricultural Statistics at Rome the Institute telegraphs a summary of the more important contents of the Bulletin to the governments of the adhering countries. The data thus received is immediately sent by the Canadian Office to some 500 newspapers throughout the

Dominion, to the agricultural departments of the provinces and to others specially interested, by means of multigraphed sheets. During the period of harvest in the northern hemisphere the statistics of production thus received are arranged in tables showing the production of the different countries in detail. Canadian readers are thus enabled to obtain the official estimates of crop production at the earliest possible date.

One of the duties of the Canadian Commissioner is to furnish the Institute with the data concerning Canada needed for its publications. About the 12th of each month the crop report for Canada received from the Census and Statistics Branch of the Department of Trade and Commerce is cabled to the Institute for publication in the 'Bulletin of Agricultural Statistics.' Articles for the 'Bulletin of Agricultural Intelligence and Plant Diseases,' and of 'Economic and Social Intelligence' have been prepared in the Canadian Office. An example of these is the analysis of the Canada Grain Act, together with an account of the reports, circumstances and conditions which led up to its passage. Among other articles sent to Rome were those on Cow Testing Associations in Canada, and Credit Banks of the Province of Quebec. A report of the Dry Farming Congress at Alberta was also furnished. Specialists outside this Department have also been invited to collaborate by communicating articles which they may deem of interest to the Institute in the prosecution of its objects and for possible publication in the Institute Bulletins.

During the year reports on Co-operation, the Manufacture and Consumption of Fertilizers, and Hail Insurance were sent to the Institute.

THE LIBRARY.

The Library of the Publications Branch was established to enable the Commissioner of the Institute for Canada to furnish information to the Institute. Secondarily, it renders available to those interested in agricultural subjects the latest Bulletins and reports from the principal agricultural countries of the world.

The publications in the Library have now reached the number of 1,200 bound volumes and over 3,000 pamphlets. With the exception of some books of reference and a small number of important works on different phases of agriculture, the publications have been received in exchange for Canadian agricultural publications. One-third of the books are from the United States Department of Agriculture, the Experiment Stations and State Boards of Agriculture. About one hundred agricultural and statistical periodicals are received and kept on file. These are nearly all received in exchange for publications of this Department.

A monthly statement of additions to the library is printed in the Canadian Bulletin of the International Agricultural Institute.

Cards representing the bulletins and reports of the American Department of Agriculture are arranged in alphabetical order and are available for consultation. Catalogue cards have also been arranged for a considerable part of the rest of the library. Some progress has also been made in arranging the Library of Congress cards of universal agricultural literature.

THE DISTRIBUTION OF PUBLICATIONS.

A short time prior to the beginning of the past fiscal year this Branch was charged with the general distribution of the various publications issued by the several other Branches of the Department of Agriculture, which include the Experimental Farms, the Seed Branch, the Dairy and Cold Storage Branch, the Live Stock Branch, the Health of Animals Branch, and the Tobacco Branch. To this end the individual mailing lists were taken over and arranged according to a uniform system. These several lists which are constantly under revision have been systematically classified on stencils for mechanical addressing and on cards for reference. The several lists, which vary in size from 2,500 for the smallest to 60,875 for largest, comprise 168,292 names, which number is constantly increasing.

As a publication is issued it is immediately sent out to the list of the Branch by which it was produced. In addition it is announced to the public by means of a press notice which consists of a brief review. This is promptly mailed to about five hundred papers which have a combined circulation of considerably more than two million. These notices usually create a large demand for the publication, and along with the copy sent out in response to each request there is sent a return post card which affords the recipient an easy means of applying to have his name added to the permanent mailing list. By means of this system the lists are making a healthy and comparatively rapid growth.

In addition to the bulletins, pamphlets, circulars and reports sent out for the different *Branches*, there was mailed to a list, ranging from 6,000 to 8,500 latterly, the monthly bulletin issued by this Branch, 'The Publications of the International Agricultural Institute,' to a special list of about 280 agricultural scientists the three original monthly bulletins prepared by the International Agricultural Institute, at Rome, as well as large editions of nine pamphlets constituting evidences and papers presented before the Select Standing Committee of the House of Commons on Agriculture and Colonization and the Committee of the Senate on Agriculture and Forestry.

During the year there were sent out to the mailing lists of the respective Branches thirty-six new publications of the Department of Agriculture, four new evidences given before the Select Standing Committee of the House of Commons, five new papers read before the Committee of the Senate on Agriculture and Forestry, besides small editions of the three monthly bulletins of the International Institute at Rome comprising in all nearly one and one-half million copies. In addition there were mailed in response to personal applications some 30,000 copies of publications, including eleven new pamphlets and circulars of a special character and copies of back numbers of bulletins, reports, bulletins, pamphlets and circulars.

In order to help new settlers in the western provinces with agricultural publications the Honourable the Minister of the Interior consented that this Branch should provide Dominion Lands Agents with supplies of return post cards to be handed to prospective settlers. These announce to entrants for homesteads that helpful publications may be had by filling in and mailing the return card. Since many homesteaders have not previously farmed, or have come from countries differing from the

Prairie Provinces in soil and climate, it is expected that this service will be of great value to them. In accordance with the estimate of the Commissioner of Dominion Lands sixty thousands of these cards have been provided for a year's supply.

MULTIGRAPHING.

Primarily for the purpose of issuing to the Press the cabled monthly world's crop reports of the International Agricultural Institute this Branch some time ago purchased a multigraph machine.

During the past year this has been found useful in issuing reviews of new publications and announcements of changes in government regulations bearing on the agricultural industry.

In addition to the International Institute cables there were sent out during the year 66 articles in the English language and 25 in the French constituting in all 100 pages of matter of which a total of 57,275 sheets were printed. These going to the agricultural press and other newspapers of the country have kept well before the public the work being carried on by the Department of Agriculture as set forth in its published reports and bulletins.

III.—PATENTS OF INVENTION.

The following tables show the transactions of the Patent Office, Department of Agriculture, from April 1, 1912, to March 31, 1913:—

Applications for Patents.	Patents and Certificates Granted.			Caveats.	Assignment of Patent.	Notices under Section 8.
	Patents.	Certificates.	Total.			
8,684	7,502	1,199	8,701	353	3,741	1,013

DETAILED STATEMENT, PATENT OFFICE FEES.

Month.	Notices.	Patents.	Assignments.	Certified Copies.	Caveats.	Sundries.	Subscriptions.	Total.
1912.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
April	169 75	17,883 75	683 25	233 15	195 00	1 25	58 60	17,244 75
May	147 00	17,108 98	635 80	257 85	135 00	16 30	34 80	18,335 73
June	130 00	14,864 00	563 75	318 80	180 00	29 00	22 00	16,107 55
July	178 00	15,498 90	697 95	285 30	178 20	6 00	27 20	16,821 55
August	170 00	15,444 15	691 85	258 61	140 50	14 75	22 20	16,742 06
September	214 40	14,785 15	532 75	262 45	150 00	5 50	21 55	15,971 80
October	181 10	16,248 05	714 95	366 75	165 15	62 50	38 00	17,776 50
November	145 00	16,859 90	719 50	285 85	160 00	12 00	64 10	18,246 35
December	158 50	16,213 20	616 65	198 90	156 00	8 50	44 05	17,395 80
1913.								
January	164 00	19,512 45	782 35	303 16	190 50	26 00	31 79	21,010 25
February	164 00	17,044 70	832 50	353 95	180 00	8 00	26 55	18,609 70
March	205 25	20,282 40	751 15	277 55	140 00	13 54	213 09	21,882 98
	2,027 00	201,745 63	8,222 45	3,402 32	1,920 35	203 34	603 93	218,125 02

The total number of Patents granted to Canadian inventors was 1,256 and were distributed among the provinces of the Dominion as follows:—

Ontario.	Quebec.	British Columbia.	Manitoba.	Alberta.	Saskatchewan.	New Brunswick.	Nova Scotia.	Prince Edward Island.	Yukon.
584	277	122	105	61	58	25	20	4	0

Patents issued to residents of Canada, with the ratio of population to each patent granted:—

Provinces.	Patents.	One to every.
British Columbia	122	3,217
Ontario	584	4,320
Manitoba	105	4,339
Alberta	61	6,142
Quebec	277	7,230
Saskatchewan	58	8,490
New Brunswick	25	14,075
Prince Edward Island	4	23,431
Nova Scotia	20	24,616
Yukon	0	

NATIONALITY OF FOREIGN INVENTORS.

Countries.	1908.	1909.	1910.	1911.	1912.	1913.
United States of America	5,030	4,602	5,021	4,885	4,997	4 964
Great Britain	313	346	392	359	506	495
Germany	214	215	241	304	336	307
Australia	76	58	60	77	99	75
France	91	59	75	97	108	100
New Zealand	31	36	37	33	46	47
Sweden	46	40	39	54	52	64
Belguim	18	17	20	25	20	23
Austria	14	33	23	20	24	40
Italy	14	10	8	12	6	16
Switzerland	13	11	12	26	23	20
Denmark	29	8	8	5	14	15
Transvaal	6	12	12	16	10	7
Hungary	8	5	7	6	6	6
Russia	5	4	14	18	6	17
Norway	13	9	18	20	17	10
Newfoundland	4	1	2	3	1	2
Netherlands	0	4	0	0	.....	
Mexico	4	4	11	7	10	8
Cape Colony	0	1	0	3	4	1
Cuba	3	0	1	5	1	1
Spain	0	2	1	3	.....	
Chili	0	1	0	1	.....	1
Finland	5	1	0	1	.....	1
Portugal	0	1	0	0	.....	
Roumania	0	1	0	1	1	
Grand Duchy of Luxemburg	2	1	0	0	.....	
Algeria	1	0	0	1	.....	
Japan	3	1	2	0	2	2
India	1	0	0	5	3	1
Natal	1	0	0	0	1	2
Nicaragua	1	0	0	1	.....	
Brazil	1	0	0	2	1	
Turkey	1	0	0	0	.....	
Poland	1	3	2	0	.....	
Holland	10	0	2	11	8	7
Argentina	.....	4	5	1	1	
Panama (Canal Zone)	.....	2	0	0	3	
Egypt	.....	.....	1	1	.....	
Southern Rhodesia	.....	.....	1	.....	.....	
Peru	.....	.....	.....	.....	3	2
Hawaii	.....	.....	.....	.....	3	3
Venezuella	.....	.....	.....	.....	2	1
Trinidad, W I	.....	.....	.....	.....	1	
Porto Rico	.....	.....	.....	.....	1	2
Tunis	.....	.....	.....	.....	.....	1
Ceylon	.....	.....	.....	.....	.....	1
Straits Settlements	.....	.....	.....	.....	.....	1

Statement of the number of patents issued under the Act, on which the fees are paid for periods of six, twelve or eighteen years, at the option of the patentee; and of patents on which the certificates of payments of fees were attached after the issue of patents originally granted for periods of six and twelve years.

Period for which Fees were paid on First Issue.			Patents on which Certificates were attached after issue.		Re-issues.		
6 years.	12 years.	18 years.	6 years.	12 years.	6 years.	12 years.	18 years.
7,469	5	18	1,161	38	9	1	0

COMPARATIVE STATEMENT of the transactions of the Patent Office from 1872, when foreign applications were first admitted, to 1912, inclusive.

Year.	Applications for Patents.	Patents and Certificates Granted.			Caveats.	Assignments of Patents.	Fees received.
		Patents.	Certificates.	Total.			
							$ cts.
1872	752	671	....	671	184	327	18,651 65
1873	1,124	1,016	10	1,026	171	547	28,889 64
1874	1,376	1,218	27	1,245	200	711	32,962 48
1875	1,418	1,266	57	1,323	194	791	33,380 82
1876	1,548	1,337	46	1,383	185	761	34,429 38
1877	1,445	1,277	75	1,352	168	841	33,656 30
1878	1,428	1,172	96	1,268	172	822	31,992 42
1879	1,358	1,137	101	1,238	203	728	30,868 88
1880	1,601	1,252	156	1,408	227	855	38,334 99
1881	1,956	1,510	222	1,732	226	907	48,083 95
1882	2,266	1,846	291	2,137	198	955	55,854 79
1883	2,611	2,178	291	2,469	242	1,052	67,625 48
1884	2,681	2,456	167	2,623	238	1,772	63,257 47
1885	2,518	2,233	214	2,447	222	1,075	62,176 23
1886	2,776	2,610	250	2,860	187	1,322	67,176 23
1887	2,874	2,596	254	2,850	219	1,335	67,940 21
1888	2,747	2,257	282	2,539	240	1,159	65,246 51
1889	3,279	2,725	356	3,081	221	1,437	78,046 72
1890	3,560	2,428	369	2,797	248	6,307	84,150 78
1891	3,233	2,343	393	2,736	215	1,231	77,723 63
1892	3,176	3,417	415	3,832	242	1,500	77,216 76
1893 (Only 10 months)	2,614	3,153	292	3,445	229	1,345	63,850 19
1894	3,291	2,756	412	3,218	301	1,445	80,682 56
1895	3,387	3,074	422	3,496	343	1,550	86,358 48
1896	3,728	3,488	413	3,901	306	1,420	93,532 52
1897	4,300	4,013	284	4,297	377	1,551	102,117 92
1898	4,200	3,611	262	3,873	363	1,657	99,361 95
1899	3,305	3,151	412	3,563	311	1,467	107,261 56
1900	4,628	4,522	482	5,004	283	1,914	113,852 46
1901	4,817	4,766	551	5,317	302	2,323	120,064 37
1902	5,301	4,391	510	4,901	317	2,339	129,896 82
1903	5,912	5,673	432	6,105	328	2,384	141,363 81
1904	6,061	6,091	517	6,607	303	2,472	145,896 10
1905	6,355	6,111	536	6,647	300	2,576	152,085 45
1906 (Only 6 months)	2,857	2,378	271	2,649	137	1,232	69,700 46
1907	7,077	6,121	634	6,755	285	3,003	169,548 78
1908	7,406	6,774	744	7,518	317	2,900	178,482 49
1909	7,239	6,395	827	7,222	319	3,001	176,692 05
1910	7,789	7,223	1,010	8,233	448	3,147	194,571 54
1911	8,037	7,249	1,002	8,251	406	3,356	200,164 41
1912	8,293	7,399	1,113	8,512	348	3,725	207,762 77
1913	8,681	7,502	1,199	8,701	353	3,741	218,125 02.

There has been a marked increase in all the transactions in this branch of my department during the past year, and it may be remarked that there appears to be a growing activity in inventions and business arising out of them in the prairie provinces, as well as in the province bordering on the Pacific Coast. The correspondence and inquiries from these provinces have increased enormously during the past year, foreshadowing a still larger increase in the issue of patents and other transactions under the law in the next fiscal year.

The total revenue of the Patent Office for the year ending March 31, 1913, was $218,125.02.

The number of new applications for patents presented during the year was 8,681, an increase over the preceding year of 388.

The total number of reports issued by the examiners during the year was 11,551, an increase of 517, and 10 patents were surrendered and re-issued.

Out of the total number of patents granted by this office during the year there were 4,964 issued to inventors, or assignees resident in the United States, being 66 per cent. of the whole issue.

This branch of my department continues to receive the official reports of paten from Great Britain, Australia, New Zealand, United States, Mexico, Portugal, Italy, Belgium, France and Japan, in addition to other periodicals of a scientific nature, in exchange for the Canadian Patent Office Record.

There were 1907 patents brought under the conditions of the Compulsory License Clause, Section 44, of the Patent Act, an increase of 118 over the preceding year.

The number of notices under Section 8 of the Patent Act was 1,013.

The present fiscal year also shows an increase in the Patent Office revenue. The total amount of fees received was $218,125.02, being the largest receipts for the same period of time in the history of this branch of the department, the increase over the preceding year amounting to $10,362.25.

IV.—COPYRIGHTS, TRADE MARKS, INDUSTRIAL DESIGNS AND TIMBER MARKS.

STATEMENT of fees received by the Copyright and Trade Mark Branch from April 1, 1912, to March 31, 1913.

Months.	Trade Marks.	Copyrights	Designs.	Timber Marks.	Assignments.	Copies.	Total.
1912.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.	$ cts.
April	3,825 90	153 50	33 00		41 00	23 85	4,080 25
May	3,801 75	158 00	50 00	2 00	72 00	21 50	4,108 25
June	3,954 40	145 00	40 00		101 00	16 75	4,257 15
July	3,937 00	116 65	60 00		35 00	22 75	4,171 40
August	2,633 00	130 73	106 00	4 00	433 50	31 25	3,338 18
September	3,645 15	146 00	63 00	2 00	33 00	26 25	3,915 10
October	3,874 58	197 00	80 15	1 00	35 00	25 50	4,216 23
November	4,891 40	233 20	55 00	4 00	34 00	27 15	5,244 75
December	3,689 70	258 60	111 00	10 00	89 00	22 35	4,180 65
1913.							
January	3,202 20	160 25	64 00		32 00	57 60	3,516 05
February	4,707 50	146 50	75 00	1 00	48 00	50 75	5,031 75
March	4,611 35	204 00	89 00		43 00	35 50	4,982 85
	46,773 93	2,049 43	826 15	30 00	999 50	364 20	51,013 21
Refunds	7,889 50	25 40	57 00		8 06	1 75	7,981 65
	38,884 43	2,024 03	769 15	30 00	991 50	362 45	43,061 6

The particulars of the registrations made by the Copyright and Trade Mark Branch of the Department of Agriculture during the year ended 31st March, 1913, are as follows:—

I. COPYRIGHTS:—

Full Copyrights without Certificates	1,376
Full Copyrights with Certificates	190
Temporary Copyrights without Certificates	91
Temporary Copyrights with Certificates	5
Interim Copyrights without Certificates	88
Interim Copyrights with Certificates	10
Assignments of Copyrights	23
	——1783
II. TRADE MARKS	1,315
Renewals of Specific Trade Marks	70
Assignments of Trade Marks	511
III. INDUSTRIAL DESIGNS	128
Renewals	12
Assignments	23
IV. TIMBER MARKS	15
Assignments	2
Total registrations	3,859

The following table shows a comparative statement of the business of this branch from 1903 to 1912, inclusive:—

Year.	Letters Received.	Letters Sent.	Copyrights Registered.	Certificates of Copyrights.	Trade Marks Registered.	Industrial Designs Registered.	Timber Marks Registered.	Assignments Registered.	Fees Received.
1903	2,687	3,211	900	176	557	88	23	272	18,086 25
1904	2,858	3,293	1,106	228	621	107	25	118	20,647 30
1905	3,367	3,902	1,130	189	661	139	22	154	23,706 75
1906	5,340	5,193	1,228	169	1,119	125	47	282	33,107 10
1907	4,475	4,353	1,140	175	848	182	33	136	30,073 20
1908	6,647	4,980	1,416	170	892	162	44	343	37,514 00
1909	6,320	5,750	1,535	171	1,059	143	108	174	38,071 31
1910	6,411	7,688	1,699	206	1,021	118	39	286	42,153 76
1911	7,027	7,091	1,593	213	1,212	149	39	230	46,327 86
1912	9,435	9,322	1,760	205	1,315	128	15	559	51,043 21

V.—PUBLIC HEALTH AND QUARANTINE.

Asiatic Cholera.—During the past year *Asiatic Cholera* has been reported in the following countries:—

Arabia, Austria-Hungary, Bulgaria, China, Ceylon, Dutch East Indies, India, Indo-China, Italy, Japan, Malta, Montenegro, Persia, Philippine Islands, Roumania, Russia, Servia, Siam, Straits Settlements, Tripoli, Tunis, Turkey in Asia, Turkey in Europe and Zanzibar.

The epidemic of this disease in Italy has been brought under control since my last report. No cases were reported from that country during the past summer except a limited number at Cagliari, Sardinia. The most menacing situation at present is in the war zone in Turkey. Official information concerning the cholera there is meagre or absent; but the belated and imperfect press reports indicate that cases are occurring in large numbers, particularly among the Turkish and Bulgarian troops in the field and fortifications, and also among the refugees in the city of Constantinople.

Bubonic Plague.—This disease has prevailed during the year in the following countries: Afghanistan, Algeria, Arabia, Argentina, Austria-Hungary, Azores, Brazil, British East Africa, Canary Islands, Chili, China, Cuba, Dutch East Indies, Ecuador, Egypt, Germany, Great Britain, Hawaii, India, Indo-China, Japan, Java, Mauritius, Morocco, New Caledonia, Persia, Peru, Philippine Islands, Porto Rico, Russia, Siam, South Africa, Straits Settlements, Turkey in Asia, Venezuela, West Indies.

There was a slight recurrence of Plague in North China in June, several cases of the pneumonic form having been reported during that month. But there has not been this year any repetition of the epidemic outbreak which was so marked last year in both Manchuria and Mongolia. The disease has come nearer to us than usual inasmuch as it has been present at Trinidad, Porto Rico and Havana. All three of these places, however, have been since declared free from Plague in accordance with the International Sanitary Convention.

Smallpox.—This disease has again had an almost world-wide appearance during the year. Two steamships brought cases of this disease to my St. Lawrence Quarantine Station, and three vessels brought cases of it to my Station at William Head, B.C. The last vessel with this disease at the last mentioned Quarantine arrived there yesterday. With regard to the other vessels, the disease was entirely stamped out at my Quarantine Stations.

At my Halifax Station a steamer of the Marine Department was desinfected at the request of the Department. She had brought coastwise from St. John, N.B., a case of smallpox to Halifax.

Leprosy.—There are at present in my Lazaretto at Tracadie, N.B., twenty-one patients, eleven males and ten females. Seventeen of these are of French-Canadian, two of English, one of Icelandic, and one of Russian origin.

At my Leper Lazaretto at Darcy Island, B.C., four lepers were received. One of them died there. The other three were deported to China, under the Immigration Regulations.

Beri-Beri.—Experiments and observations during the year seem to confirm the previously formed opinion that this disease is due in many instances to the use of polished rice.

Enteric Fever (Typhoid).—Protective vaccination against Enteric Fever has been steadily advancing in favour among medical men since its first trial on a large scale by the British Army in the Boer war. It has also been used with

satisfactory results in the French, Russian and Japanese armies, and is said to be completely harmless. The operation is similar to that against smallpox, and produces even less inconvenience.

Tuberculosis.—The most interesting occurrence in connection with this disease has been the claim of Dr. F. F. Friedman, of Berlin, that he has discovered a turtle serum vaccine for the prevention and cure of this disease. The President of the Canadian Association for the Prevention of Tuberculosis invited Dr. Friedmann to come to Ottawa and give an address before the annual meeting of the Association, which he did. He also treated a certain number of patients here. This Association is, of course, not under my Department, but receives a grant from the Federal Government, so that the results of his action in this matter are of a certain amount of interest to us., The question of the value of Dr. Friedmann's treatment is, of course, still *sub judice,* as the results cannot be looked for for some months to come.

Circular Letters were issued from time to time to my different officers, calling their special attention to various matters during the year: On June 9, pneumonic plague in North China; October 2, plague at the Azores; October 7, plague on the Tyne; December 17, routine disinfection from Hong Kong suspended; January 3, 1913, plague rats in Liverpool; January 29, cholera in Constantinople; and March 1, plague in Canary Islands.

Preventive Medicine.—The increasing appreciation of Public Health work is shown by the statement in the Journal of the American Medical Association that the United States spent last year $2,420,614.95 on strictly public health service, and that the Port Physician of the Port of New York is this year asking for appropriations from his State of $2,000,000 for the reorganization of the quarantine service of the port, and for an addition of $35,000 to the pay-roll.

Carriers, human and insect.—Observations along these lines have been continued during the year, and have confirmed previous conclusions, with the addition of the recently reported one, that one of the infectious diseases may be carried by the common biting stable fly.

Pollution of Public Water Supplies.—This matter is deservedly gaining more and more attention every year. International, national, provincial and municipal interest is increasingly shewn in this all-important matter.

Fifteenth International Congress on Hygiene.—This Congress was held in Washington, D.C., in September last. Representatives of twenty-eight nations were in attendance, and the delegates were three thousand in number. President Taft gave an address of welcome at the opening meeting, and in the course of his remarks urged the establishment of a National Bureau of Health. My Director-General of Public Health was sent as a delegate to represent the Government of Canada, and to convey its greetings to the Congress. The compliment was paid to Canada of his being appointed an Honorary President of the Congress.

New Quarantine Station.—In May last I advanced the Port of Digby, N.S., to the position of a regular quarantine station, for the inspection, etc., of vessels entering the Annapolis Basin. Dr. E. DuVernet was appointed as Quarantine Officer in charge.

New Appointments.—At Grosse Isle in the St. Lawrence I appointed an additional medical assistant, Dr. J. V. Coté, to act as an additional inspector of incoming vessels. Owing to the ever-increasing immigration from Europe, and the occasional arrival at one time of more than one vessel heavily laden with passengers, I judged it necessary to make this additional appointment so as to insure a prompt inspection of incoming vessels.

Crews on boats.—This year the officers and crews of the Quarantine steamers at Grosse Isle had to live on board instead of in houses at various distances from the wharf. This has assisted to insure the most prompt inspection of incoming vessels. The extension of this rule to the Quarantine steamer at other ports is under my consideration.

Mail steamers.—Last year my Quarantine Officer at Rimouski, instead of merely inspecting during the time occupied by the transfer of the mail to the mail tender, came up to Quebec on each mail steamer. This gives him full time for his inspection, and much lessens the delay at Grosse Isle when there is quarantinable disease on board. If, as it is anticipated, there are to be more than one mail steamer a week during the coming season, the increasing of the number of inspectors will require my consideration.

Changes in staff.—During this last year Dr. Lepage has been appointed in place of Dr. Belisle at Rimouski, Que.; Dr. MacLeod in place of Dr. Rindress at North Sydney, C.B.; and Dr. Morrison in place of Dr. O'Neil at Louisburg, N.S.

Protection against rats.—To be ready for the ever possible extension of the plague rats, I have caused two portable sulphur dioxide fumigating appliances to be provided, one to be stationed at Victoria, B.C., and one at Vancouver, B.C. These can be drawn to the end of the piers for the deratization, etc., of vessels it is desired to so treat.

Breasting out, etc., of vessels.—Regulations for the prevention of the possibility of Bubonic Plague getting into this country, by means of plague rats landing from vessels sailing from infected countries, were issued by me in August last, to apply to the various ports of Canada on both oceans. Such regulations had already been in force for some time on the Pacific coast. I was advised by the Department of Justice that as the Department of Marine has charge of harbours, general orders affecting vessels after they have passed quarantine and come into the various harbours, would more naturally fall within the jurisdiction of that Department. Moreover, the regulations in question could be enforced by the harbour masters and other officials of the Marine Department, without such increased expense as would be involved if my Department had to appoint special officers in the various harbours for this purpose. At my request the Department of Marine accepted this obligation, with the arrangement that I should notify them from time to time against which port or ports I advised that it should be enforced. In accordance with this agreement I notified, through my officers, the Department of Marine on the 3rd of January of the finding of plague infected rats at Liverpool, England, and on the following day instructions were issued by that Department to their harbour masters on the Atlantic seaboard.

These Regulations were as follows:—

1. It shall be unlawful for any vessel coming from any port where Bubonic Plague is present, and entering any port of Canada, to be docked or moored at a less distance from any wharf than six feet.

2. It shall be unlawful for any vessel coming from any port where Bubonic Plague is present, and entering any port in Canada, to be secured or made fast to any wharf by any hawser or hawsers on which there is not placed a metal rat guard or funnel at least three feet in diameter and at least three feet from such wharf.

3. It shall be unlawful for any vessel coming from any port where Bubonic Plague is present, and entering any port in Canada, to be connected with any wharf by a gangway which is not guarded by some person there for the purpose of preventing rats from leaving such vessel by such gangway, and all gangways shall be lifted when not in use.

The whole respectfully submitted,

MARTIN BURRELL,
Minister of Agriculture.

PUBLIC HEALTH.

APPENDIX No. 1.

REPORT OF THE DIRECTOR-GENERAL OF PUBLIC HEALTH

(F. Montizambert, I.S.O., M.D.Edin., F.R.S.C.E., D.C.L.).

March 31, 1913.

Sir,—I have the honour to submit this my report as Director-General of Public Health for the year ending this day.

Asiatic cholera.—Since my last annual report this disease has been reported in the following countries: Arabia, Austria-Hungary, Bulgaria, China, Ceylon, Dutch East Indies, India, Indo-China, Italy, Japan, Malta, Montenegro, Persia, Philippine Islands, Roumania, Russia, Servia, Siam, Straits Settlements, Tripoli, Tunis, Turkey in Asia, Turkey in Europe, and Zanzibar.

The epidemic of this disease in Italy has been brought under control since my last report. No cases were reported from that country during the past summer, except a limited number at Cagliari, Sardinia.

At present the most menacing situation perhaps is the war-zone in Turkey. Official information concerning the cholera is meagre or absent; but the belated and imperfect press reports indicate that cases are occurring in large numbers, particularly among the Turkish and Bulgarian troops in the field and fortifications near Constantinople, and also among the refugees in the city of Constantinople. Some newspaper reports give the number of cases occurring daily as up in the hundreds or even thousands. It is also reported that the troops of the allies contain many victims of the disease. On account of poorly-organized medical and sanitary forces, poor equipment, lack of food supplies, etc., the epidemic may assume tremendous proportions. On account of poor communication and probable suppression of news, the exact conditions cannot be stated.

This disease has been present in many places in Japan, but no large outbreaks have occurred, and public water supplies apparently are not infected. Of interest as showing one of the ways in which this disease is spread is the reported finding of nine cholera bacillus carriers amongst contacts examined in Japan. The totals given for Japan during 1912 were: Cases, 2,722; deaths, 1,678; exclusive of Formosa, in which there were 333 cases, with 256 deaths.

Bubonic plague.—This disease has prevailed during the year in the following countries: Afghanistan, Algeria, Arabia, Argentina, Austria-Hungary, Azores, Brazil, British East Africa, Canary Islands, Chili, China, Cuba, Dutch East Indies, Ecuador, Egypt, Germany, Great Britain, India, Hawaii, Indo-China, Japan, Java, Mauritius, Morocco, New Caledonia, Persia, Peru, Philippine Islands, Porto Rico, Russia, Siam, South Africa, Straits Settlements, Turkey in Asia, Venezuela, West Indies.

Some idea of the ravages committed by this disease in the past may be gathered from the following table published by Dr. Isadore Dyer, of New Orleans:—

1334. Black Death destroyed over 25,000,000 persons in Europe.
1348. More than 42,000,000 people in the world died of plague.
The disease was endemic in Europe from the 14th to the 19th Century.
1720. From Syria to Marseilles the plague killed 80,000.
1803. Plague in Constantiople; 150,000 died.
1810. Plague in Constantinople; 110,000 died.
Between 1783 and 1844, 21 epidemics of plague occurred in India.
1894. Plague began in Canton—spreading to Hong Kong; 192,000 lives lost.
1904. Over a million people died of plague in India, which is now the plague centre of the world.

Since 1896 plague has travelled from Bombay to Australia, Hawaii and Japan—up the western coast of South America and to San Francisco.

There was a slight recurrence of plague in North China in June, several cases of the pneumonic form having been reported on the 8th of that month. But there has not been this year any repetition of the epidemic outbreak which was so marked last year in both Manchuria and Mongolia.

The official report of the Medical Officer of Health for the colony, under date the 24th of August, gives the number of cases to that date as 1,842, and the deaths 1,722. During the week ended February 1, 1913, one fatal case was reported. And three deaths, all Chinese, occurred on the 8th instant.

In Hong-Kong this disease appeared, as has been usual for the last ten years, with the beginning of the summer, and continued until the autumn. The situation was aggravated at first by prolonged drought. Energetic cleansing measures were adopted, the military assisting the local authorities.

A very interesting account of the behaviour of plague germs in marmots during hibernation is given by Drs. Dujardin-Beaumetz and E. Mosny in a note presented to a meeting of the Academy of Sciences of Paris on July 22, 1912. They confirm the belief that there is an ancient and important permanent focus of plague in the Trans-baikal regions and Mongolia. It has been known for some time now that trappers and others who handle marmots or tarbagans *(Arctomys bobac)* in these regions for their fur have been liable to acquire a disease locally known as the *Maladie des tarbagans*, and now Tcherkassoff has demonstrated that this is really plague. If the marmots keep the disease going in the same way as rats and ground squirrels do in other parts of the world, there must be some means of bridging over the Arctic winter. The authors, therefore, tried some experiments on hibernating marmots to see how far they were susceptible to the plague bacilli. They found that the evolution of the germ in such animals was delayed, one of them surviving, for example, for as much as four months under the unfavourable conditions for hibernation which existed in the laboratory. A similar state of affairs has also been noted with regard to tuberculosis and trypanosomiasis. Blanchard and Blatin observed that certain animals very sensible in the waking state to the different pathogenic trypanosomes are, on the contrary, during hibernation absolutely immune. Dujardin-Beaumetz and Mosny think that this persistence of the virus in the marmot through its hibernating period explains the survival of the plague in the endemic foci in Mongolia and the regions of Astrakan.

Porto Rico.—A summary of the plague situation to the end of 1912, including human and rodent cases reported or discovered, was as follows: Human cases, 56; deaths, 36; rats examined, 32,650; rats found infected, 66. The last case of plague in man occurred in San Juan, September 12; the last plague-infected rat was found at Arecibo, October 30, and one at Caguas, December 21, 1912.

Cuba.—The existence of plague in Habana was first confirmed on July 6, in the case of a Spaniard who had taken sick on June 30. Since that date, two more cases developed, one confirmed July 9, and the other on July 22. The last two cases resulted in death. There were therefore three cases with two deaths known to have occurred between July 6 and September 1, 1912. An investigation made by the Cuban sanitary authorities showed that there had occurred one if not two very suspicious cases, also resulting in death, prior to the first case officially confirmed. All the cases were in persons of one neighbourhood, the first, however, three blocks distant from the last two.

The Cuban health authorities had suspected the possible existence of plague prior to the occurrence of human cases. The official report of the presence of plague in Porto Rico was received by them on June 20, and on the same day an anonymous communication was received from a resident to the effect that an unusual mortality among rats had occurred in an area covering three blocks which were within a square of the Caballeria wharfs. An investigation of this report elicited the information that the mortality among rats had been noticed during the preceding two weeks, and that the unusual mortality had ceased by the time the information reached the sanitary department. Several dead rats were found, but on necropsy were negative as to plague.

The presence of infection can therefore be reasonably dated as early as the first week in June. Between June 24 and July 8, 291 rats were caught within the infected district, and none was found to show plague infection. From July 8 to September 1, 1912, 8,166 rats were necropsied, of which none proved to have plague. Since July 8 a systematic campaign for extermination of rats by a special corps of men, in a zone including the old city of Habana, which allowed a broad margin over the true infected squares, has been in progress. The campaign, of course, was extended to include the wharfs, also Casa Blanca and Regla, which are towns across the bay. The quarantine service also took measures for eradicating rats from lighters and coastwise vessels laying alongside of wharfs.

The campaign, briefly stated, included inspection of houses and the cleaning up in houses of trash and rubbish, disinfection of infected houses, rat proofing of buildings, regulations for the proper storage of foodstuffs, proper disposal of garbage in tight metal containers, as well as the trapping and placing of poisons for rats.

The rapid control of the infection may be attributed to the early discovery and report of the presence of infection, and the active measures taken by the sanitary Department in dealing with the known infected area, as already outlined. Other factors contributing to the favourable campaign are that the buildings in Habana are to a great extent rat-proof in structure; also that old sewers where rats usually find refuge did not extend beyond the squares where infection was found.

At the end of the month of August, Cuba was declared free from plague in accordance with the International Sanitary Convention, 1905.

Trinidad.—There were 11 cases of plague with 7 deaths in this island between April 1 and June 13, 1912.

Azores.—Three cases, with 2 deaths, were reported on October 2.

Canary Islands.—Five deaths at Teneriffe, February 27, 1913.

River Tyne.—The Local Government Board reported that an imported case of human plague occurred on board a vessel in the river Tyne Port Sanitary District. The patient was an apprentice on board the *S.S. Belleilsa*, which arrived in the river Tyne on September 10.

Liverpool.—A plague-infected rat was found, January 13.

California.—During the week ending September 21, two plague-infected ground squirrels were found in Contra Costa county.

Hawaii.—The last case of human plague occurred December 16. The last plague-infected rats was found December 28.

Java.—The United States Consul at Batavia has reported to his Government that during the year 1912 there were reported in the Residency of Malang 1,477 cases of plague, with 1,406 deaths. Of this number 743 cases, with 713 deaths, were reported during the last quarter of the year.

Philippine Islands.—During 1912 59 cases were reported, of which 53 died. This year two fatal cases were reported up to the 8th of last month.

During the month of December, in connection with the plague suppressive measures, a very interesting experiment was carried out. On December 17, 1912, a case of human plague occurred at No. 4 Calle Baraca. As soon as the case was removed, and before disinfection, two guinea-pigs, free from fleas, were placed in a wire cage and the cage then placed upon the floor near the place where the patient had slept. On December 21 both guinea-pigs died of typical plague, the diagnosis being bacteriologically confirmed. A similar experiment was carried out in a house on Calle Cabildo, and one on Calle San Fernando, where cases of plague had occurred, but in which immediate disinfection had taken place. In neither of these places did the guinea-pigs contract plague. This experiment would seem to indicate that the disinfecting and insecticide measures which are carried out by the Bureau of Health are effective.

Russia.—Plague continues present in the Astrakan Government. There have been but few cases, however, at any one time, and the total from July 17 to September 17 was 53 cases. At Kherson a plague-infected rat was found on the steamship *Queensmore*, which had arrived from Odessa. The finding of plague-infected rats on vessels in this way is not an uncommon occurrence. It illustrates the manner in which the disease is spread from country to country and from continent to continent by vessels, in the absence of human cases and without there being anything to indicate the presence of the infection on the vessel.

A report from St. Petersburg, dated November 29, states that the commission for the prevention of plague announced October 29 that the northwestern part of Afghanistan was infected with plague and that the frontier between Persia and Afghanistan, from Mean to Meruchak, would be closed.

Shanghai.—The last case of plague at Shanghai was reported November 18, making a total of 16 cases with nine known deaths since the appearance of the disease in November. The cases have all occurred among Chinese, and the area of distribution has remained unchanged. The disease has been evenly distributed as regards sex. Nothing definite is known regarding conditions in the Chinese territory surrounding the international settlement.

India.—Plague has continued to prevail in India. Some idea of its ravages may be gathered from the following published figures: In the Provinces, October 27 to December 28, 25,212 cases, 19,863 deaths; December 29 to February 1, cases, 21,707, deaths, 17,705.

Smallpox.—This disease has again had an almost world-wide appearance during the year. Two steamships brought cases of this disease to your St. Lawrence Quarantine Station, and two further cases occurred in quarantine amongst those landed for observation. These cases would, of course, have developed inland had these persons not been held at quarantine. As it was, the disease in the case of both steamships was stamped out at the Quarantine Station. Three vessels reported this disease at your William Head Station, near Victoria, B.C. The last one arrived there yesterday with a saloon passenger and also one of the Chinese steerage passengers ill with smallpox. They had both come on board at Hong-Kong, so that presumably

the infection was from one of the ports in Japan. At your Halifax Station a steamer of the Marine Department was disinfected at the request of that Department. The vessel had brought, coastwise from St. John, N.B., a case of smallpox to Halifax.

In several of the States of the United States land quarantine of smallpox cases has been abandoned. The following extract from a Bulletin of the North Carolina Board of Health gives an explanation:

The State has been for many years expending $50,000 annually enforcing quarantine against smallpox. Whom did this quarantine protect? Not you, who have been vaccinated, but the unvaccinated class, those who, from ignorance or other less pardonable reasons, refuse to be vaccinated. From whom did the State derive the money to pay for this quarantine? From you who have been vaccinated, and, therefore, need no protection. The unvaccinated class in practically all instances is made up of those who do not pay taxes. You see, then, the answer to the query is simple.

Vaccination is an absolute protection against smallpox. If you have been vaccinated you need fear smallpox no more than chickenpox. If everyone were vaccinated smallpox would be wiped off the face of the earth. It is perfectly possible for everyone to be vaccinated. This county, through its County Superintendent of Health will vaccinate anyone free of charge. Vaccination is practically devoid of danger; a suckling infant may be vaccinated with impunity, and as a matter of fact this is really the best time to vaccinate, as the reaction at this age is comparatively slight.

Taking all these things into consideration, why then should you, who pay the taxes and have been vaccinated, be taxed to protect those from smallpox who pay practically no tax, and who foolishly refuse to be vaccinated? The State has decided that it has no right to thus burden you unnecessarily, and it has, therefore, abolished quarantine against smallpox. It is anticipated that by doing this, not only will the taxpayers of the State be relieved of the cost of the quarantine, but also more individuals will now be vaccinated than formerly to protect themselves against the disease and that, therefore, the incidence of smallpox will be considerably decreased.

When a case of smallpox occurs now in any community in this State, it is the duty of the County Superintendent of Health to put a placard on the house in which the case is confined, and to notify the public of the existence of the case and its location. It is then 'up to' the unvaccinated individuals in the community to take their choice between vaccination and protection from the disease, or remaining unvaccinated and rendering themselves liable to infection.

It will be of interest to quote here Sir William Osler's challenge to the anti-vaccinationists: 'A great deal of literature has been distributed casting discredit upon the value of vaccination in the prevention of smallpox. I do not see how anyone who has gone through epidemics as I have, or who is familiar with the history of the subject, and who has any capacity left for clear judgment, can doubt its value. Some months ago I was twitted by the editor of the *Journal of the Anti-Vaccination League* for 'a curious silence' on this subject. I would like to issue a Mount Carmel-like challenge to any ten unvaccinated priests of Baal. I will go into the next severe epidemic with ten selected vaccinated persons and ten selected unvaccinated persons – I should prefer to choose the latter—three members of parliament, three anti-vaccination doctors, if they could be found, and four anti-vaccination propagandists. And I will make this promise—neither to jeer nor jibe when they catch the disease, but to look after them as brothers, and for the four or five who are certain to die I will try to arrange the funerals with all the pomp and ceremony of an anti-vaccination demonstration.'

In the course of a recent address before the Medical Society of King's College Hospital, London, Mr. Stephen Paget, F.R.C.S., spoke as follows:—

Another subject on which we must speak with authority is vaccination. Let alone the sound ethical argument, that a man must not leave undone what is good for the general safety of the community; our authority rests not on ethics but on facts. Concede to the anti-vaccinationist that in times happily past it is unhappily true that a few cases of syphilis did occur from arm-to-arm vaccination; they were not one in fifty thousand—still, they did occur. Assure him that neither syphilis nor tubercle can be transmitted in glycerinated calf-lymph. Then arm yourselves with half a dozen authoritative facts. Get these facts in a handy form from Dr. Bond, of Gloucester, who is the Honorary Secretary of the Jenner Society; get them now, before you forget; and keep them by you, till you want them. Have in your minds the history of the Gloucester epidemic of 1895-96; how, in the Gloucester Cemetery, are the bodies of 279 unvaccinated children who died in that epiedmic, and only one vaccinated child. Have in your minds, also, the complete immunity of well-vaccinated doctors and nurses attending cases of the disease. But do not take your facts from this country alone; for here in England we have strict sanitary laws, and vigilant medical officers of health; besides, in England there is not enough smallpox left for an appeal to overwhelming statistics. Therefore, take your facts from virgin soil; take them rather from the East than from the West. Here, for instance, is a good weapon, lately forged against the enemies of vaccination. In May of this year the doctors in Philadelphia gave a banquet to the President of the United States; and after dinner he made them a speech, saying what great things they had accomplished in Havana, in Panama, and elsewhere, against yellow fever, malaria, dysentery, typhoid, and other scourging diseases; and he went on to speak of America's latest possession, the Philippine Islands. And these are his words: 'By a whole-vaccination of all of the inhabitants of the Philippines, carried out carefully and rigorously, we have practically stamped out smallpox of all kinds in the islands, in which the black smallpox of the most virulent type flourished before our coming.' Surely, these words of the President of the United States are more worth having than a whole shelf of anti-vaccination tracts. Or look at the vast accumulated experience of India: there is no more overwhelming proof to be desired of the innumerable hosts of men, women and children safeguarded by vaccination from the horrors of smallpox.

Leprosy.—There are at present in your Lazaretto at Tracadie, N.B., twenty-one patients, eleven males and ten females. Seventeen of these are of French-Canadian, two of English, one of Icelandic, and one of Russian origin.

No deaths, and no admissions occurred during the year. One man was so restored to health that he was discharged in November last. He and another patient similarly discharged a year ago, have been found upon the periodical visits to them of the medical officer of the Lazaretto to remain free of the disease. They had both been treated with Nastin, Chaulmoogra oil and strychnine. Whether they may be claimed as cures, or whether they are cases of what sometimes occurs, limitation of, or the production of auto-immunity against the disease, it will take more cases to determine.

Your Leper Lazaretto at Darcy Island, B.C., was used during this year for accommodation of four Chinese lepers while awaiting deportation under the Immigration Regulations. The death of one of these men occurred at Darcy Island, the other three cases were deported to China. They were given the address of the Leper Mission Hospital at Canton, and given money enough to pay for their stay there for some months.

The following notes on leprosy in Hawaii are from the pen of George W. McCoy, Surgeon, United States Public Health Service:—

There are few subjects of a public health nature about which more general misinformation exists than that of the care of lepers in Hawaii. For example, the impression is very general that the lepers in Hawaii are kept isolated on a barren, desolate island far out in the ocean, and that the place is patrolled by armed guards; indeed, so general is the understanding that guards are required that the local officials receive several letters each month from persons in the United States and elsewhere making inquiries as to vacancies in the force of guards at the Molokai leper settlement.

The facts are that the leper settlement occupies a small peninsula of nine square miles jutting out from the northern side of the island of Molokai and forming not more than one-fortieth of the whole area of the island—an island that is excelled by few in beautiful scenery and natural attractiveness. There are no guards, armed or otherwise, and none are needed, as the majority of the lepers are well satisfied to remain in the settlement, where ample provision is made for all physical needs, and the necessity for labour does not exist. Any who might escape would be apprehended and returned by the police authorities on the island. A remarkable fact in this connection is that when, as occasionally happens, a leper recovers and is authorized to leave the settlement, a request to be permitted to remain is frequently made.

The history of leprosy in the Hawaiian Islands goes back only about 60 years, at which time it seems probable that it was introduced by Chinese immigrants. For this reason the disease is known among the natives as *Mai pake* (Chinese disease). The first official notice of leprosy was taken in 1864, when the board of health took measures to isolate those who were afflicted. Since that time the policy of segregation has been carried on with varying degrees of vigor. Probably on the whole the various laws for dealing with those afflicted with this malady have been enforced in about the same degree as sanitary laws are enforced on the mainland.

At the present time there are about 700 known lepers in the islands. About 600 of these are at the leper settlement on Molokai and 100 at the isolation hospital at Honolulu. The number who are at large must be considerable, as every year many are collected who are in such an advanced stage of the disease that it is impossible to believe that they could have developed in one year the lesions that are found when they are brought in for examination.

The total number of lepers is much below what it was a few years ago. The decrease is largely brought about by the fact that the native Hawaiians, the race in which the disease is most prevalent, are rapidly becoming reduced in number, there being now only about 36,000 among a total population of 192,000. About 2 per cent of the Hawaiians have leprosy.

Rabinowitsch has recently claimed to have made a somewhat startling discovery in regard to the bacteriology of leprosy which appears to show that our modern knowledge of the heredity of the disease may require revision. The author studied more especially the blood of miscellanous lepers and fetuses, making use of Uhlenhuth's antiformin method. The finds in patient's blood were not constant and it was necessary to make repeated examinations as a rule. Positive results were obtained in six lepers and one fetus. These appear to show that the bacilli may pass from the maternal blood directly into the fetal circulation, and that it is possible for the child to inherit the disease, although as in the case of tuberculosis this mode of transmission may be rare.

The evidence in favour of regarding goats as a source of leprosy in man has lately been collected by Dr. P. Engelbreth, who holds that leprosy is not transmitted from man to man. The strict isolation of lepers in ancient days and in the Middle Ages, he asserts, did not cause an appreciable reduction of the disease. It spread rapidly, and, though isolation was maintained with equal strictness in England,

Central and Southern Europe, the disease disappeared only in the two former areas. Further, it does not increase in such countries as Egypt, where isolation is not enforced, while it appears in places where it has previously been unknown. Out of 512 marriages, of which records were obtained, leprosy subsequently developed in the healthy mate of a leper in 17 cases only. The presumptive evidence of the existence of an intermediate host is therefore strong, and for the following reasons Dr. Engelbreth suspects the goat of acting this part. Leprosy is a disease of mountainous countries where the goat is bred. In ancient times Egypt, Arabia, Asia Minor, and India were centres of leprosy and goat breeding. Both goats and leprosy were imported from Asia Minor into Greece, whence they were simultaneously transmitted to Italy and Spain. In the time of Charlemagne, goats were far more numerous than cattle and sheep; but in the sixteenth and seventeenth centuries, goats were largely ousted by sheep, whose wool rose in value. As goats became scarce, leprosy began to disappear. This coincidence was, he says, most striking in Denmark, where, about the year 1400, flocks of 50 to 200 goats were kept on every farm, and where there were twenty leper hospitals. Owing to their ravages on the woods goats were expelled in 1473 from Fyen by Christian I. In 1541 a war of extermination was waged against them throughout the country, and fourteen years later, Christian III. was able to abolish all the leper hospitals, and Dr. Engelbreth estimates that fourteen years was the average term of a leper's life. Norway, however, has kept both her goats and her lepers, and in 1848 there were over 2,000 lepers and about 500,000 goats. Now, the tale of goats has been halved, and that of the lepers has been reduced to 200. All the countries in which leprosy still exists are also goat-breeding countries; and in America, where leprosy was unknown before Columbus, the distribution of leprosy corresponds with the prevalence of goats. The parts colonized by the Spaniards, the Portuguese and negroes have both goats and lepers; while the northern states, which were colonized by the English, possess neither. In a paper published by Hertha in 1912, two forms of tuberculous disease in the goat have been described. The one is identical with bovine tuberculosis; the other is totally different, and is characterized by greyish-yellow, firm, but not caseous, nodules in the internal organs. These nodules closely resemble those found in the internal organs of lepers. Whether the infection is carried from goat to man by the finger-nails of the person who tends the infected goat, or by the milk, Dr. Engelbreth does not pretend to decide; but he thinks that much may depend on the extent of the disease in the goat, and on the opportunities for contact with man. He suggests that lepers may again transmit their disease to goats, and, if this be so, the isolation of the former may yet be of use. But he attaches more importance to a campaign against infected goats by diagnostic injections of tuberculin, which causes a re-action in lepers as well as in the tuberculous. He further suggests that a tuberculin prepared from infected goats should be given to the surviving lepers, whose numbers he computes at 300,000, as he believes that in this way a speedy extinction of leprosy would be brought about.

Upon reading this article in the *British Medical Journal* of 1st February last, I drew the attention of Dr. Langis, your Medical Superintendent at the Tracadie Lazaretto to this question, and asked him to report on this matter, as far as those sections of New Brunswick are concerned which furnish, and have for so long furnished, from time to time our leper patients for the Lazaretto; and to let me know whether there is any reason, in his judgment, to think that this observer is correct as far as New Brunswick is concerned. Dr. Langis has replied as follows: 'As far as these sections of New Brunswick are concerned which furnish from time to time our patients for the Lazaretto, I have no hesitation in saying that the goat theory as a source of leprosy is not tenable: for there are no goats to be seen here, and never have been.'

Dr. Chreighton Wellman, of New Orleans, has this year published accounts of some of his experiments in the treatment of leprosy by salvarsan. His conclusions are:

1. In cases where the patient is not too weakened from the disease, salvarsan may be administered without harm.

2. Some improvement may be expected, especially in early cases.

3. We have no evidence that such effect of the drug is in any way specific or permanent.

4. 'Arsenic has long been employed in leprosy,' to quote from our preliminary note on this subject, 'and we have no evidence that salvarsan is superior in its action to the other forms of arsenic which have been used by previous observers.'

Beri-beri.—In the December, 1912, number of the *Journal of Hygiene*, E. A. Cooper, B.Sc., from the Lister Institute of Preventive Medicine, writes in part as follows:

The historical aspect of beri-beri has recently been so exhaustively dealt with by Schaumann (1910), Simpson and Edie (1911), and Funk (1912), that it is only necessary to consider here in detail the previous investigations of the protective and curative effects of various foodstuffs and their extracts towards this disease and the analogous polyneuritis of birds.

The evidence obtained by Eijkman (1897) and Braddon conclusively proved that beri-beri occurred amongst those races that used a highly polished (steam-milled) rice as their staple diet, but not amongst those peoples whose diet consisted of rice decorticated by hand or parboiled rice.

Fletcher (1907) by the application of this discovery found that beri-beri disappeared from amongst the inmates of an asylum subsequently to the replacement of polished rice by whole rice as the staple diet.

Again we read in the *Journal of the American Medical Association*, Jan. 25, 1913: 'Gouzien has been studying the records in regard to beri-beri in the penitentiary at Hanoi in French China from 1906 to 1910. He concludes that rice undoubtedly plays a very important part in the pathogenesis of the disease, but that the superiority of the unhulled to the polished rice does not lie in any antitoxic effect of the hulls but in the fact that they protect the grain against degeneration from heat and moisture. He considers the disease an intoxication, not an infection, and cites in support of this theory the fact that a very severe epidemic of beri-beri was followed by an epidemic of scurvy, the latter disease attacking only those who had been affected by the former. The two diseases seem to be in a sense interchangeable. Moreover, even when polished rice of the same quality is used, marked decrease is noted in the epidemic when the diet is varied by a free use of fresh vegetables, fruits and meat. In addition to the dietetic factors, overcrowding and dampness seem to play an important part in the course and severity of the disease. Gouzien is at the head of the medical department of the French army in Tonquin, and his article is published in the *Annales d'Hygiène et de Médecine Coloniales*, 1912, xv, 3.'

Yet Carl Lovelace, M.D., of Porto Velho, Brazil, claims (*Journal American Medical Association*, Dec. 14, 1912) that rice is not a factor in the causation of this disease. He says that amongst the 30,430 admissions to the hospital of the Madeira-Mamoré railway between Jan. 1, 1908, and Jan. 1, 1912, the diagnosis of beri-beri or of 'poly-neuritis' or of 'multiple neuritis' was made 963 times. He says: My second proposition is that this affection as it occurs in Brazil is not etiologically related to a diet of polished rice. To resist this negation requires some temerity on the part of a mere clinician, after reading the papers of Fraser and Stanton,[9] and many references to the work of Chamberlain and Vedder,[10] Heiser and others in the

Philippines. I do it because I have seen some patients with beri-beri whose diet was varied and abundant—who had not eaten a grain of rice for many months before the onset of the disease; a large number of patients with beri-beri, who, enjoying a liberal, protein-abounding diet, had eaten it only occasionally throughout their lives, and a great number of sufferers from the disease, in whose diet it could not be considered the staple article. Of the latter class I have seen a goodly number who for months before the onset of the disease had had rice excluded from their diet.

Unlike the Oriental, the South American, by nativity or adoption, is a meat-eater. He eats the European breakfast, but he eats two full meals every day and partakes liberally of meat at both. Beans, which are supposed to have a therapeutic value in the treatment of beri-beri in the East, are staple articles of diet throughout North Brazil. They abound on the tables of the poorer classes. *Feijoada,* a compound of bacon, red beans and dried beef, lightly touched with garlic and bathed in its own gravy, is the dish universal among the poor, and not despised by the wealthy. The bean with meat is the staple article of food of the Brazilian peasant. Rice and *farinha* (cassava) and bananas are side dishes. It must be admitted that the Brazilian labourer eats some rice practically every day, and that the incidence of beri-beri is perhaps highest in his class; but the same line of reasoning would incriminate polished rice as a casual factor in lobar pneumonia, malaria, uncinariasis and gonorrhea. Among our Brazilian employees lobar pneumonia is twenty times more frequent, relatively, than it is among our American employees.

In December, 1909, alarmed at the increase of beri-beri among our employees of all classes, we caused rice to be eliminated from all company messes and removed from all the commissaries. In lieu of rice we furnished macaroni. The staple foodstuffs of the labourers were made to consist of dry biscuit, meat (dried and tinned meat and codfish), beans and macaroni instead of dry biscuit, meat, beans and rice. Conditions along the line of work were such that a large majority of the labourers were deprived of rice. The men who boarded at the company's messes ate no rice at all. The beri-beri rate climbed steadily throughout the year 1910, and dropped abruptly at the end of the year exactly as it had done in 1909. In 1910 on a comparatively rice-free diet, there was relatively three times as much beri-beri amongst our employees as there was in 1911, during which year all the messes and all the commissaries of the compound served and sold rice freely. The rice has always been the same kind—white, polished rice.

One of our American physicians, who did not eat a grain of rice while in Brazil and who purposely refrained from eating it because of its supposed association with beri-beri, contracted the disease after about ten months' service here and was invalided home. Three other members of our staff, who lived at headquarters and who ate rice only occasionally, certainly not more than once a week, were invalided home with the diagnosis in both cases of beri-beri. One of these men ate at the table of the chief engineer, the other two lived at this hospital. At neither table did rice appear except occasionally. Two other physicians stationed in the camps contracted the disease and were invalided home. Because one of these physicians had malarial parasites in his blood, when he got home, his affection was there diagnosed as 'malarial neuritis.' In all, six physicians have contracted the disease here—six healthy, young adults who lived on a full protein-rich diet.

The incidence of the disease among physicians has been greater than among any other class except the Brazilian labourers. Does not this fact alone speak volumes?

In 1910, out of a total of 690 admissions to the first-class ward of this hospital, there were twenty-four cases of beri-beri. Many of these patients came here and were invalided back to the United States during the time that rice was prohibited.

They did not eat a grain of rice. They were clerks, mechanics, camp foremen, timekeepers, etc. Their diet here would not have suffered, in comparison, as to quality, quantity and variety, with the diet of persons similarly employed anywhere in the United States. Fresh meat, onions, potatoes and an abundant supply of the best American tinned meats, fruits and vegetables were supplied in lavish profusion, in addition to the bacon and beans which have belted the globe with steel rails. Among the men from whom these cases were drawn (and no account is taken of a number of contract-expired men, who left of their own accord when the disease first manifested itself) the food supply was above criticism from any standpoint.

In a paper read before the annual meeting of the American Society of Tropical Medicine, in June last, Dr. R. H. Creel, U.S. Public Health Service, writes:

Summarizing the prevalence of beri-beri, it is seen that the disease is confined chiefly to those people that mainly subsist on rice. The Moluccas, where the allied diet of sago obtains, is an exception.

The origin of beri-beri is not recorded, but the great increase of cases has been coincident with the increased production of steam milled rice, and is proportionate in different localities to the amount of polished rice consumed.

In the Philippines and other parts of the Orient, beri-beri outside of Government controlled institutions, has been on marked increase during the past decade.

The mortality in Manila from beri-beri during the last eight years has been double that from cholera, and has exceeded that from any other disease. Beri-beri in the United States has not shown any great prevalence and is not a matter of concern to us from a public health standpoint.

If the diet of the Oriental be liberally increased or made equivalent to a Western standard there would no longer be a beri-beri problem.

The prevention of beri-beri is all very easy on paper, but the practical application of prophylaxis is quite a different matter, when we consider the small sanitary force at work among a people that are not at all overly keen in co-operation with alien advisers or administrators.

Enteric fever.—Protective vaccination against typhoid has been steadily advancing in favour among medical men since its first trial on a large scale by the British army in the Boer war. It has also been used with satisfactory results in the French, Russian and Japanese armies, and is said to be completely harmless. The operation is similar to that against smallpox, but produces even less inconvenience. Because of its results in the French army, anti-typhoid vaccination as a compulsory public measure is being advocated in France, where 6,000 deaths from the disease occur annually.

In 1911 compulsory vaccination against typhoid fever was ordered for the United States army, consisting of about 76,000 men. Nearly a year ago the navy authorities adopted a similar policy. Recently Surgeon General Stokes of the navy stated that not a case of the disease had occurred among the 64,000 enlisted men of the navy in the eleven months since vaccination. Army reports show similar immunity; of the 16,000 men mobilized in Texas in 1911 because of the troubles in Mexico, only one contracted typhoid during three months of camp life. In the Spanish-American war, with no such vaccination, 20,738 cases of typhoid developed and more than 80 per cent of the total mortality was due to the disease.

Major F. F. Russell, Medical Corps, U.S. Army, has written as follows:

It is now little more than three years since we, in the army, began our present campaign against typhoid fever, using antityphoid vaccine with the idea of immunizing each individual soldier.

That the ordinary means of prevention are not available for the protection of the health of soldiers in the field is well known. To furnish troops in camp and on the march with unpolluted water and suitable food has been, and still continues to be, a problem for field sanitarians, but the difficulties to be overcome are so great that success has rarely attended their efforts.

The experience of our troops in the war of 1898 is still fresh in our minds. It will be remembered that among 120,000 men we had 20,730 cases and 1,580 deaths, or about one case of typhoid to every five men. During the Boer war the English army had 31,000 cases and 5,877 deaths. During the Franco-Prussian war there were 73,396 cases and 8,789 deaths among the German troops alone; in fact, 60 per cent of their total mortality was due to typhoid fever. The records of the Civil War show that there were over 80,000 cases in the Northern army.

In the country at large we know that the disease is altogether too prevalent; in 1910, in the registration area of the United States, which comprises only 58 per cent of the total population, there were 12,673 deaths from typhoid fever, or 23·5 per 100,000 population.

From these figures it is evident that there is no more important problem for military surgeons than the prevention of typhoid fever, consequently we have attacked the disease from all sides. Every effort is made to supply pure water and uncontaminated, wholesome food. Improved methods of camp sanitation have lessened the difficulties due to flies and the lack of sewerage system. Nevertheless, we know that in time of war this system of sanitary safeguards would break down and typhoid fever again become the formidable antagonist it has been in the past. For this reason we began, as I have stated, to vaccinate each and every individual against typhoid as well as against smallpox, the two vaccinations being carried out simultaneously, one on either arm.

Bacterial vaccines against typhoid were first used by Pfeiffer and Koll in Germany (*Deut. Med. Wochenschr.*, 1897, 735), and by Sir A. E. Wright in England (*Lancet*, Lond., September 19, 807, and *Brit. Med. Jour.*, January 30, 1897, 16). The changes in the blood serum after vaccination were studied first by Pfeiffer and Kolle and afterwards by Wright, so far as was possible with the laboratory methods in use at that time, and the same immune bodies were found in the serum after vaccination with killed typhoid bacilli as were found after an attack of typhoid fever.

In the early days there was a tendency to consider that this immunity lasted little more than a year, since agglutinins disappear from the blood serum at about this time, yet we know that these antibodies are present as long after vaccination as after typhoid fever itself, which confers, usually, protection for life. We are not, therefore, justified in concluding that the immunity ceases with the disappearance of the agglutinins and other antibodies. It remains to be seen if the immunity lasts as long as that conferred by vaccinia.

We also know that the immunity is not absolute, for in 1911, among about 80,000 persons vaccinated, there were twelve cases of typhoid, with one death due to hemmorrhage, and in 1910, among 15,000 vaccinated there were six cases with no deaths. The diagnosis of typhoid was made purely on clinical grounds in many of these cases, and it is indeed perfectly possible, almost probable, that some were paratyphoid fever. During the past year we have seen an increasing number of cases and it may be more common than appears from our returns.

In India, Colonel Firth (*Jour. Roy. Army Med. Corps*, 1912, XIX., 157) reports 104 cases of paratyphoid fever in 170 cases of typhoid during the year 1911, all based on accurate bacteriological diagnosis, by means of blood cultures. This point is of considerable importance, as antityphoid vaccine does not protect in the least against paratyphoid fever.

The fact that the immunity is not absolute is, however, no objection to its use, but rather an argument for its repetition at intervals to be determined in the future as the lessons of experience become clear, just as we now do in the case of smallpox. The failure, in some cases, to secure absolute immunity may be due to inefficient vaccine, to exceptionally large quantities of infectious material, or to inability of the individual to respond to immunization with the usual antibodies, and this failure may be interpreted as a personal idiosyncrasy. With the limited number of doses of vaccine now used, we can never hope to raise the immunity high enough to protect against overwhelming doses of infectious material, and there are, no doubt, certain persons who cannot be completely protected against typhoid any more than against smallpox.

In the future no army should be ordered into the field, in a region where enteric fever is endemic, unless every individual of the command has been immunized against the disease. It is the only method of prophylaxis which protects the soldier against the ever-present bacillus carrier, and the only kind of protection which is effective under all conditions.

Its use during epidemics is another important field.

Still another group of importance consists of children and college students who are at the most susceptible age. In addition they are exposed more than adults because of the greater use of unheated milk and long summer vacations in the country. Children and young people bear the immunization particularly well and it is advisable to vaccinate them before they leave home for the summer vacation or college. There is no more objection to revaccinating against typhoid than against smallpox.

Dr. Russell, after experience with 359 cases of antityphoid inoculation in the United States, gives his opinion that the inoculation as a preventive measure is both necessary and highly desirable for children and young adults, especially when leaving home for summer vacations, schools and colleges. In the cases studied no harmful effects are reported, none have contracted typhoid fever, and both the local and general reaction are less marked than in adults. The dosage is based on weight and not on age. Revaccination should be undertaken earlier than in adults. The importance of this subject may be judged from the statistics of the U.S. Bureau of the Census, which show that in 1909 there were 3,366 deaths from typhoid in the registration area in patients under twenty years of age. Of this number 1,192 deaths occurred in patients under ten years of age. A very large proportion of these could undoubtedly be prevented by the use of the vaccine.

Tuberculosis.—The turtle serum vaccine for tuberculosis introduced by Dr. F. F. Friedmann, and described by him in a paper published in the *Berliner klinische Wochenschrift* of November 18, of which an account was given in the *British Medical Journal* of December 7, 1912, is being investigated in the United States, where Dr. Friedmann now is. We are informed that his colleague, Dr. Piorkowski is at present in London. We learn from the *New York Medical Journal* of March 29 that the following statement has been made by the United States Public Health Service regarding its investigation of the Freidmann treatment for tuberculosis. On March 8 the Secretary of the Treasury, on the recommendation of the Surgeon-General, caused a board of medical officers to be detailed to make a thorough investigation of Dr. Friedmann's alleged cure for tuberculosis. These officers proceeded immediately to New York, and arranged with Dr. Friedmann for demonstrations of his remedy upon persons suffering from tuberculosis. These demonstrations are being carried on in certain New York hospitals through the courtesy of their respective authorities, and will be continued until sufficient information has been obtained for the forming of an opinion as to the merits of the treatment. Dr. Freidman has method of treatment. In addition to the observation of persons under treatment by submitted to the board a culture of the bacteria which, he states, are used in his

Dr. Friedmann, the board of officers will make experiments to ascertain whether this culture is, as Dr. Friedmann asserts, harmless to warm-blooded animals. Considerable time will necessarily be required to carry out these investigations, and in the meantime the public is advised that tuberculosis patients should not travel long distances in the hope of receiving the treatment. Those to whom it is administered for demonstration purposes are selected by the hospital authorities from among their patients, the number selected constituting only a small proportion of available volunteers. Certain statements purporting to be expressions of the opinion of the board of officers of the public health service carrying on the investigations have appeared in the newspapers. These officers have expressed no opinion, and will not be in a position to do so until the work has advanced sufficiently far to warrant some conclusion in regard to Dr. Friedmann's treatment.

In the *Medical Record* of the 22nd inst., Dr. Karl Von Ruck writes in part: In the light, however, of the fact that many other creditable observers have noted the recurrence of virulence with like cultures it remains for Friedmann to show that his particular culture is permanently avirulent for the human subject, which he has, of course, not done, and which he is unable to do without resorting to the human experiment supported by autopsy. The best of avirulence for the guinea pig, while suggestive, is not conclusive and would not be, even if by passages through this or other animals, he had shown these to be resistant.

The ordinary duration of the life of a guinea pig is not long enough to show what might occur in the human subject, knowing as we do that an infection acquired in early childhood may not become manifest until in later periods of adult life.

We know that tubercle bacilli can continue, in a living state, in the tissues of animals without apparent pathogenic power for years, and we have ample evidence that this can be likewise the case in the human subject as shown by so-called latent infections, which after many years may become active and progressive. We must in the light of such observations conclude that though avirulent for long periods of time, the bacilli gradually adapt themselves to their host and acquire pathogenic power. To such a change the organism may itself contribute by metabolic changes in its own tissues, favoured by intercurrent diseases, by trauma, or by nutritive disturbances, or the bacilli may acquire virulence by successive subculturing in the organism itself, *in situ* or after transport from a tissue highly resistant, to one that is less so.

It may, however, be presumed that Dr. Friedmann was in possession of ample and conclusive evidence to contradict at least most of the objections stated and others which might be suggested, before he inoculated several hundred infants and young children with his living bacilli, and that for their successful protection he will supply in due time, other proof than the statement that 'although some of them had been vaccinated a year before he made his communication, none gave evidence of scrofula.' Valid evidence is the more necessary because none of the animals which he sought to protect with his living bacilli, resisted an infection with a but slightly virulent culture of tubercle bacilli, judging the degree of virulence by the length of time necessary to cause death of his control animals.

Another writer in the same paper says:

The notoriety given by the public press in this country to the claims made by Dr. Friedmann, of Berlin, before the Berlin Medical Society on November 6 last, interests the writer more particularly on account of Dr. Friedmann's statement that he has vaccinated 360 children within the last year with a vaccine consisting of living tubercle bacilli, that had been found non-virulent by laboratory experiments. The *Berliner klinische Wochenschrift* of November 18 contains Friedmann's paper in full and also the discussion which followed its presentation. In the latter, several of those participating made it clear that, with the evidence at hand, the use of a

living virus, which for the time had lost its virulence for laboratory animals, was not justified and implied serious risks. Citron called attention to the experience of Pasteur, with a presumably non-virulent living virus of chicken-cholera which though first apparently successful, for some unknown reason regained its virulence later, and instead of protecting, caused veritable epidemics in the fowls which had been injected for the purpose of their protection.

It appears to me that even with the risk of using a living virus, Dr. Friedmann has not supplied the slightest evidence that he has conferred any degree of resistance or of immunity on the children which he inoculated. The only evidence which he sets forth for this purpose, namely that these children are "so far free from scrofula" can scarcely be called evidence of immunity, nor does it preclude the possibility of his having actually infected them, since an intra-muscular injection of tubercle bacilli does not necessarily produce clinical evidence of tuberculosis in the time which has intervened, and need not do until many years later.

The *Journal of the American Medical Association* says in regard to this matter:

In another place in this issue of *The Journal*, and in the Berlin Letter of last week's issue, reference is made to Friedmann's treatment of tuberculosis. This method of treatment does not appear to be based on any new principle. It represents simply another effort to utilize for curative and preventive purposes the antigenic substances in the tubercle bacillus, without the simultaneous introduction of any toxic or harmful substances. In order to secure this effect, living bacilli, devoid of virulence and invasiveness, so it is asserted, are injected intra-muscularly. These bacilli are said to be derived from the turtle, but the method by which they are deprived of virulence is withheld. This secrecy is not in accord with the ethical standard of scientific medicine. The report as to the results of the practical use of this carefully guarded secret shows, first, that in the experiments on guinea-pigs complete protection has not been obtained. Indeed, it is doubtful whether the protection obtained is any greater than that obtained by the injection of killed bacilli. Furthermore, there are no indications that it has been possible to cure tuberculous guinea-pigs by means of the bacilli rendered avirulent by a secret method. The treatment consequently lacks an unassailable experimental basis—a really and promptly effective cure for tuberculosis is expected to cure tuberculosis in guinea-pigs and other animals. The injections so far made by Friedmann in children seem to indicate that the bacilli as injected are harmless in children, and that is all. We have no evidence that the injections will prevent tuberculosis in children, and from the nature of the case it will be exceedingly difficult to determine what the effect of such injections really is. In the second place the alleged curative effects do not seem to be any more pronounced and definite than those obtained with the various forms of tuberculin when properly used. The remarks made in the discussion following the reading of Friedmann's paper before the Berlin Medical Society clearly substantiate this statement. Finally we come to the possible dangers of the treatment, to which Citron refers, namely, reversion to virulence on the part of the bacilli. This possibly must be reckoned with and constitutes a serious detriment to the method, no matter what its real virtue may be, if it has any. Its apparent harmlessness in children so far is counterbalanced by this possible danger. In view of these considerations there is not sufficient warrant for any other attitude toward Friedmann's treatment of tuberculosis than one of critical neutrality and judicious skepticism; for it concerns an essentially secret procedure without adequate experimental basis and without any better results to its credit than produced by tuberculin properly used.

Those who think that sometimes physicians are prone to be too sceptical and lacking in readiness to look with favour on new therapeutic announcements should

have recalled to them a little medical history, which shows clearly how few of the vaunted new cures prove successful. There is scarcely a month that passes in which there is not some announcement of a novel remedy or mode of treatment for some disease or other. It is not too much to say that ninety-nine out of every one hundred of them either fail completely or else prove eventually to be of very minor significance as curative agents.

Hence the medical and professional attitude toward new cures in general and particularly those announced for our chronic and most frequent diseases. It is no spirit of jealousy that dictates the scepticism, but, on the contrary, the very proper desire to safeguard the public from the injury that inevitably comes when a remedy proves to be a failure.

For even when the remedy is perfectly harmless in itself the excitement and above all the disappointment prove harmful to patients. There is no doubt now, however, that Dr. Friedmann's new cure will be properly tested and every possible benefit that it may be to incipient consumptives accurately estimated. It will be a question of months, however, not weeks, for the decision to be reached, and in the meantime the less that the great body of sufferers from tuberculosis are disturbed over the new remedy the better.

The Canadian Association for the Prevention of Tuberculosis invited Dr. Friedmann to come from New York and to deliver an address at the annual meeting of the association. This he did. He subsequently treated some patients at the Water Street Hospital. With regard to this the association appointed a committee of five medical members of its executive committee to watch the progress of the cases and to report upon them. Our position in the matter is 'We do not endorse or recommend Dr. Friedmann's treatment, nor can we be sure that it is entirely safe, but we are willing to observe patients who take it upon their own responsibility, and to report the results impartially.'

It cannot be long before the true value of the treatment will be clearly ascertained. Then, and not until then, will the world know whether it is a discovery worth untold millions or merely one of the numerous false beacons which have raised the hopes of millions of sufferers only to dash them to deeper despair.

Circulars.—Circular letters were issued from time to time to your different officers, calling their attention to the various matters during the year. On June 9, pneumonic plague in North China; October 2, plague at the Azores; October 7, plague on the Tyne; December 17, routine disinfection from Hong-Kong suspended; January 13, 1913, plague rats in Liverpool; January 29, cholera in Constantinople; and March 1, plague in the Canary islands.

Bulletins, &c., received.—The weekly Public Health Reports of the United States Public Health Service have been regularly received and are of great value, as are also the monthly bulletin from provincial, state, and municipal boards of health in Canada, the United States and other countries. The bulletins of the International Office of Public Health, Paris, and of the Sleeping Sickness Bureau, London, have been regularly received throughout the year and in both cases spare copies received have been distributed to the provincial boards of health.

Preventive Medicine.—M. J. Rosenau, Professor of Preventive Medicine and Hygiene, Harvard University, very aptly writes: One reason why prevention has not made faster progress is because it lacks dramatic interest. When we prevent disease—nothing happens! There is nothing very exciting about that. To cure a disease or to stamp out an epidemic fills the eye and appeals to the imagination. A brave general or a gallant admiral is the object of universal admiration, but where is the monument to those who have prevented war? Again, if disease is prevented, there is always a lurking suspicion that perhaps it would not have occurred anyway. This skepticism, which is born of ignorance, is one of the most powerful brakes upon the chariot of progress.

The results of cure are positive—the results of prevention seem negative. Cure is real, active, evident; prevention seems mysterious, quiet, uncertain. For instance, the fact that the effects of prevention are not plain enough for every one to see is one of the obstacles against which vaccination has always had to contend. If Jenner had discovered a cure for smallpox instead of a preventative, and if that cure had been half as effective as vaccination, every civilized nation in the world would do him homage.

The increasing appreciation of public health work, however, is shown by the statement in the journal of the American Medical Association, that the United States spent last year $2,420,614.95 on strictly public health service, and that the port physician of the port of New York is this year asking for appropriations from his state of $2,000,000 for the reorganization of the quarantine service of the port, and for an addition of $35,000 to the pay roll.

Carriers, Human.—An article on this subject in a bulletin of the Ohio State Board of Health reads in part as follows:—

Investigation along epidemiological and bacteriological lines tends more and more to disprove the old theories of transmission of acute contagious and infectious disease by fomites. The theory of 'the prolonged sojourn of specific micro-organism in inanimate nature can no longer be considered valid.' As these sources of infection assume their position lower and lower in the scale of important disseminators of disease, only the human carrier is left. Aside from this negative evidence bacteriology furnishes concrete proof of the importance of the human host. The transitory, the precocious and the chronic carrier are everyday assuming greater importance, not only as so many foci from which infection is spread, but also as a means of conserving the seed, and so bridging over the quiescent period from one outbreak to a later epidemic.

The precocious carrier is one who harbours the specific etiological agent of a disease, but who has not as yet shown symptoms of the disease. The transitory carrier is one who has had the disease, and who, after the stage of acute symptoms has passed, still carries the virus or bacterium for a variable time. Least common, but a great source of danger, is the chronic carrier, who for long periods after convalescence is established, harbours the specific organism, now distributing them broadcast, and now showing no bacteria in any of his secretions, to later become an active carrier again. A fourth class might be added,—comprised of those who distribute the specific organisms only during the course of their illness. It is true that this is not generally considered with the carrier class, but in the true sense of the word its members are carriers, and are responsible for many more cases of disease than all the other classes combined.

If, then, we recognize in the human carrier the all important agency for the spread of disease, our problem, while not made easy, is yet simpler to grasp, and if its importance is realized an enormous amount of time and money will be saved. It is not argued that fomites, or inanimate objects in intimate association with the patient, may not spread disease; the contention is that this method of transmission is very unimportant as compared with the human carrier.

Carriers, Insect.—The *Journal*, November 16, 1912, says on this subject:—

Scarcely second in causative importance to bacteria, the primary agents in infectious diseases, are parasites and other insects, the active and often indispensable mediums in the spread of such diseases. This phase of epidemiology has not been exhaustively studied, and it is possible that scarcely more than a beginning has been made in determining what insects may act as carriers. Mention need hardly be made of the two species of mosquito, the house-fly, the flea, the tick, &c., as well-known carriers. M. F. Gales states that on shipboard roaches, to which hitherto little attention has been paid as carriers of disease, are responsible for the continuance and

spread of typhoid, diphtheria, tonsilitis and tuberculosis. He does not state this as a result of experimental demonstration, but as a conclusion arrived at through experience in epidemics in the navy. If this is possible on board ship it is no less possible in the congested quarters of cities, tenements, rooming-houses and especially hospitals. Gales reports pulverized sodium fluorid used as an insect-powder as the most satisfactory method thus far tried by the navy for ridding the ships of roaches. W. M. Kerr seems to have found evidence which incriminates the bedbug as a carrying agent in leprosy and sustains the opinion that it is responsible for the transmission of that disease in a large number of cases. In a series of experiments in which numbers of different insects were allowed to feed on the infected areas of leprosy patients and were afterwards examined, the flies, fleas and mosquitoes were found to contain very few acid-fast bacilli, but these were found in considerable numbers in a large percentage of the bedbugs. No acid-fast bacilli were found in control insects, which were examined in large numbers. The difficulty of cultivating the lepra bacillus and the inexpediency of experiments on human subjects make further experimental evidence difficult to obtain.

The experiments of M. J. Rosenau, recently reported before the International Congress on Hygiene and Demography, indicate that anterior poliomyelitis may be carried by the common biting or blood-sucking stable-fly. Previous experiments have seemed to demonstrate that the disease is also communicable by the secretions of the nasal mucous membranes and digestive tract. Rosenau's demonstration consisted in allowing flies which had fed about the faces of infected monkeys to bite healthy monkeys. The resulting infection of the latter with anterior poliomyelitis seems to prove that these flies are capable of acting as carriers, and the latter experiments of Anderson and Frost, to which reference was made in our editorial November 2, apparently confirm Rosenau's work.

Communities must perforce depend largely on medical men and boards of health for proposing and directing measures looking to the prevention of the spread of disease by carriers. Therefore medical men and boards of health are under obligation to know not only what agents may act as carriers, but also what means may be of service in exterminating the pests.

Aerial and Contact Infection.—In a paper read before the International Congress of the Hygeine and Demography, held at Washington last September, Dr. Charles V. Chapin, summarized as follows the views not generally accepted, and the diminished belief in the essential importance of infection by means of contaminated air. Formerly it was thought that yellow fever, influenza, cholera, scarlet fever, typhoid fever, smallpox, diphtheria, and tuberculosis were all air-borne diseases. Experiments establishing the insect origin of yellow fever and malaria have proven that at least these two diseases are not in the air-borne group. There is no good evidence of the air carriage of typhoid fever or cholera and the rapid diffusion of influenza can be explained by the ubiquity of carriers. Observations around hospitals and dwellings show that diphtheria and scarlet fever are not carried by the outer air and the concensus of opinion of the bacteriologists is that tuberculosis is probably not transmitted in this way. The view of certain English observers that smallpox may be carried long distances through the medium of air alone has not stood the test of careful analysis. The existence of carriers and mixed cases affords such ample opportunity for infection by contact that the theory of aerial transmission is no longer required to explain the origin of hitherto unexplainable cases of contagious diseases. However, it is theoretically possible that the contaminated air of houses and hospital wards may transfer the disease from one part of the infected building to another, although the virus may be too diluted in the outer air to do any harm. But even in the case of indoor infection the evidence for air transmission is not strong. The bubonic type of plague, Mediterranean fever, cerebrospinal meningitis, and polimyelitis do not spread in

hospital wards. When hospital infection occurs in cholera and typhoid fever it can invariably be traced to a contact infection. Typhus fever is transferred by insects, and the experience of Mexico and England with this disease shows that infection by air does not occur in hospital. By a study of conditions in Providence, Chapin found that scarlet fever and diphtheria are not air-borne from family to family in the same dwelling. An identical opinion has been reached by independent observers in other parts of the United States as well as in France and England. Finally it would seem that it has been definitely proven that air is practically a negligible factor in the transmission of all the contagious diseases except measles, whooping-cough, smallpox, chickenpox, and rubella. In regard to these, opinion is still divided.

The Pollution of Public Water Supplies.—At a meeting of the Great Lakes International Pure Water Association, held in Cleveland, Ohio, recently, a special committee previously appointed, of which Mr. George C. Whipple, consulting engineer of New York city was chairman, made a report, which was adopted by the association.

The following extract from that report shows some of the conclusions of the committee:—

'The committee finds that on account of the increasing population of the country, it is and always will be physically impossible to maintain waterways in their original and natural condition of purity. A reasonable degree of cleanliness should nevertheless be demanded.

'The discharge of raw sewage into streams and harbours should not be universally prohibited by law. The method of disposal of sewage by dilution is recognized as sound in principle and safe in practice if carried on with proper restrictions.

'For each waterway at any given point there is a limit to the amount of permissible discharge of waste matter, depending upon the use that is made of the river and the character of the territory through which it flows. No universal standard of purity can be wisely established or maintained. When the extent of the pollution is such as to affect the public health in any way by any reasonable use of the river, the sanitary aspect of the situation should control and the degree of pollution should be regulated accordingly. The courts must decide what is 'reasonable' use. When the extent of the pollution is such as to cause sensible offence to public decency in the course of any reasonable use of the river, this aspect of the situation may properly control. When the extent of pollution is such as to cause material injury to fish or shell-fish industries, or to the ice industry, this element may control. When the extent of pollution is such as to cause the silting up of the channels of navigable streams, this element may control.

'Even when the demands of public health, offense to decency and interference with navigation are such as to place a limit to the pollution of the stream, the economic aspects of the case should be considered in regulating the amount of permissible discharge of waste matter, the fundamental principle being that the results accomplished shall be reasonably commensurate with the cost of prevention of the pollution.

'While no universal standard of purity applicable to all rivers and waterways can be established, it is believed to be feasible to establish and maintain appropriate standards of a general nature for waters that fall within certain particular groupings. The committee has this matter under advisement, but is not prepared to report upon it in detail at this time.

'Inasmuch as the safety of public water supplies is the most important element in the problem of stream pollution at the present time, the following general principles should govern the discharge of sewage and waste matters into rivers and waterways:

'Streams from which water supplies are taken without purification should not receive any fecal matter, sewage, sewage effluent or wastes that will render the water a menace to health or otherwise impair its natural quality.

'Streams from which water supplies are taken and used after purification should not receive fecal matter, sewage, sewage effluent or waste matters in such quantities that the contamination of the water at any waterworks intake would put an unreasonable burden upon the purification works, or in quantities sufficient to produce the conditions referred to in the next paragraph.

'Streams not used for water supply may receive sewage wherever and in such quantities that its entrance will not sensibly offend decency in the reasonable public use of the stream or cause interference with navigation or with valuable fish industries or the ice industry. Where this cannot be done, the sewage or waste should receive such treatment before discharge as to bring the effluent within this rule, due regard being given to the relative cost of the processes required and the benefits to be derived.

'Large lakes from which water is used for public water supply after filtration should not receive any fecal matter, sewage or sewage effluent within a distance of several miles from the intake, depending upon local conditions as to currents, and suitable provision should be made for disinfecting the water supply.

Large lakes from which water is used for public water supply after filtration should not receive fecal matter, sewage, sewage effluent or other waste matters in such amounts or at such places that the water reaching the intake would be contaminated to the extent that an unreasonable load would be placed upon the filter, or in quantities sufficient to produce the condition referred to in the next paragraph.

'Lakes not used for water supply, harbours and tidal estuaries, may receive sewage if discharged in such a manner as to be quickly and thoroughly diluted, so that its entrance will not sensibly offend decency in the reasonable use of the water, or interfere with navigation. Where this cannot be done, sewage should receive such treatment before discharge as to bring the effluent within this rule, due regard being given to the relative cost of the processes required and the benefits to be derived. The data for deciding what is a reasonable burden to place upon a water filtration plant have not yet been secured. It is recognized that water filtration plants are not infallible, and that for this reason the work that they are called upon to do must not be too great. Until this fundamental question is settled, it will not be possible to formulate reasonable standards of purity for streams necessarily used both for sewage disposal and water supply. Often greater economy can be secured by abandoning water supplies from polluted streams than by attempting to reduce the pollution to the required extent.

'While recognizing that the pollution of many rivers and waterways is inevitable and that absolute prevention of pollution is impossible, it is deemed imperatively necessary that some control over the discharge of waste matter into rivers and waterways be maintained. The committee heartily endorses, therefore, the movement that is being made to keep the pollution of streams within reasonable bounds.

'The committee recommends the adoption by the association of these fundamental propositions, believing that they will serve as a basis for the establishment of more detailed standards later and will be helpful to those who at the present time are engaged in formulating policies in regard to this matter. The committee also requests that it be allowed to continue its work for another year.'

Human Hair.—The Medical Press and Circular writes as follows: Traffic in human hair is growing extensively since fashion imposes the wearing of chichis on our fair sisters. China is the great exporter of hair, and the best market is New York, whither 282 tons were sent last year, representing £150,000. But Vienna, London, and especially Paris are not much behind.

The hair from China does not come from the dead, as was often feared, but almost exclusively from hair falling during the toilette of the Celestials, collected with care by hair dressers and servants.

For many years the hair was exported in the 'raw' state—that is to say, with no other treatment than the disinfection imposed by the sanitary service. But recently several manufactories have sprung up, one of which employs no less than 600 hands. Here the hair is combed and washed in a bath containing soda, black soap and ammonia; after drying in a current of hot air, the hair is plunged for twenty-four hours into a vat of boiling water. It is finally sterilized in an autoclave, and then receives the colour desired, there is very little use for black hair.

The æration of the hair during these processes, and the subsequent boiling and sterilization, may be taken to remove all danger of the introduction of disease into the country by the importation of this hair.

Carbon Monoxide disinfection.—An extremely efficient apparatus has been recently put upon the market to draw the carbon monoxide and carbon dioxide from the funnels of steamers for fumigating purposes. These gases were first passed through scrapers to get rid of the soot, and were lethal to the rats. But they did not kill the flea, and it was no use in having any gas which did not kill the fleas. That only added to the risk, for once the rats were dead the fleas sought the nearest living creature in order to obtain nutriment.

Carbon Monoxide disinfection.—An extremeld efficient apparatus has been recently put upon the market to draw the carbon monoxide and carbon dioxide from holds, when there was a rush of gas through bulkheads into the men's quarters, and the smell of the gas induced the men to escape. If carbon monoxide had been used the men would not have recognized it, but would have been overcome, and have lost their lives.

Federal Control of Vaccine and Serums.—The Journal of the American Medical Association in a recent editorial on this subject, has in part as follows:

This country is being flooded—and it is the same abroad, but to a less extent—with preparations belonging to the general class of 'vaccines, viruses, antitoxins,' &c. As many of these bear the label 'Licensed by the Treasury Department' or 'U.S. Government License No. —' and, for the most part, 'Guaranteed under the Food and Drugs Act' in addition, it may be well to remind our readers of the exact meaning of these phrases. The guaranty under the Food and Drugs Act has no meaning at all for the consumer; it simply means that in case of legal difficulty the retail dealer may shift the responsibility to the manufacturer. The most brazen humbugs are 'guaranteed' in this way; this phrase has led to much misunderstanding and has undoubtedly greatly increased the confidence, even of intelligent persons, in nostrums.

The 'License of the Treasury Department' has a different significance, although it too, is capable of abuse and is being abused. Perhaps the situation will be more intelligible if we review briefly what the license means and what it does not mean.

Several years ago Congress passed a law to regulate the interstate traffic in viruses, serums, &c., the enforcement of which was placed in the hands of the Public Health and Marine-Hospital Service. Under the terms of this act and the regulations for its enforcement all manufacturers, both here and abroad, who desire to manufacture such products for interstate traffic are required to procure a license from the Treasury Department. This license is granted only on the recommendation of the Surgeon General of the Public Health Service for a period of one year, and only after a thorough inspection of the establishment and examinations of the products themselves. No license can be granted to an establishment which does not have sanitary stables, a properly equipped laboratory and a competent personnel; the establishments are subject to inspection at any time and are required by law to be

inspected at least once a year. The license may be revoked on evidence that the establishment is not being properly conducted; as a matter of fact, the licenses of some of the best-known establishments both here and abroad have been revoked or suspended pending improvements.

The examinations in the Hygenic Laboratory of the Public Health Service of products found on the market as well as those obtained directly from the firms are directed to detecting the presence of living organisms, especially of pathogenic organisms, the presence of tetanus toxin, the control of the strength of the preparations, so far as this is possible, the absence of adulterations, etc. An illustration of the working of the law is the statement from the last annual report of the Public Health Service that, owing to the difficulty of exercising a satisfactory control over foreign establishments manufacturing vaccine virus, the importation of the latter into the United States is now prohibited. This report also cites the fact that experts from the Hygienic Laboratory investigated certain cases of tetanus alleged to have resulted from the use of vaccine virus; the allegations were found to be baseless.

The Hygienic Laboratory, after prolonged investigations, has established official American standards for diphtheria and tetanus-antitoxins; all such preparations sold in the United States are required to conform to these standards. Before the establishment of these standards the antitoxins on the American market were extremely variable; in many cases they were worthless. The control of vaccine virus is similarly efficient; before the passage of the law much of the vaccine virus on the market contained large numbers of living bacteria and 'sore arms' were common. As the result of this work the United States probably leads the world in the quality of diphtheria and tetanus antitoxins and vaccine virus.

It is obviously desirable that the Hygienic Laboratory should extend its investigations and prepare standards for other products to which all firms can be held. This is simply a question of an enlarged laboratory and more money.

The XVth International Congress on Hygiene was held in Washington, D.C., September 23-28, 1912. I had the honour to be present as a delegate of the Canadian Government, and to convey their greetings to the Congress at the public inaugural meeting. Representatives of twenty-eight nations were in attendance, and the delegates were stated to be 3,000 in number. President Taft gave an address of welcome at the opening meeting, and in the course of his remarks urged the establishment of a National Bureau of Health. He said in part:—

'We need to develop under governmental auspices a bureau or a department, in which the funds of the government shall be expended for research of every kind useful in the practice and enforcement of hygiene and preventive medicine.

'That something of this sort may grow out of the present United States Public Health Service there is reason to believe,' continued the President, 'but it will need far greater appropriations and a widening of its scope of duties before it shall have filled the place that the medical professions of this country has a right to expect the general government to create in the progress of hygiene and demography.'

The Congress was organized in two divisions, a division of Hygiene, with eight sections, a division of Demography, constituting a ninth section. The sections are as follows:

1. Hygienic Microbiology and Parasitology; under the presidency of Prof. Theobald Smith, M.D., Harvard Medical School, Boston.

2. Dietetic Hygiene; Hygienic Physiology; under the presidency of Prof. Russell Chittenden, Sheffield Scientific School, Yale University, New Haven.

3. Hygiene of Infancy and Childhood; School Hygiene; under the presidency of Dr. A. Jacobi, Emeritus Professor of Pediatrics, College of Physicians and Surgeons, New York City

4. Industrial and Occupational Hygiene; under the presidency of Dr. Geo. M. Kober, Professor of Hygiene, Georgetown University, Washington.

5. Control of Infectious Diseases; under the presidency of Dr. Hermann M. Biggs, General Medical Officer, Department of Health, New York City.

6. State and Municipal Hygiene; under the presidency of Dr. Frank F. Westbrook, Professor of Pathology and Bacteriology, University of Minnesota, Minneapolis.

7. Hygiene of Traffic and Transportation; under the presidency of Surgeon-General Rupere Blue, United States Public Health Service, Washington.

8. Military, Naval and Tropical Hygiene; under the presidency of Medical Director Henry G. Beyer, United States Navy, Washington.

9. Demography; under the presidency of Prof. Walter F. Willcox, Professor of Economics and Statistics, Cornell University, Ithaca.

Many valuable papers and discussions formed part of the proceedings.

The honour was paid to Canada of my being appointed an Honorary President of the Congress.

New Quarantine Station.—In May last you advanced the Port of Digby, N.S., to the position of a full regular Quarantine Station for the inspection, etc., of vessels entering the Annapolis Basin, with Dr. E. DuVernet as the Quarantine Officer in charge.

Additional Inspector at Grosse Isle.—Owing to the ever increasing immigration from Europe, and the occasional arrival at one time of more than one vessel heavily loaded with passengers, you judged it necessary to appoint another assistant medical officer at the Grosse Isle station to assist in the inspection of incoming vessels. Dr. Joseph V. Coté, of Cap St. Ignace was therefore appointed by you, and came on duty with the opening of the St. Lawrence season of navigation in April last.

Crews on boats.—At Grosse Isle, in the St. Lawrence, this season the officers and crews of the quarantine steamers have had to live on board instead of in houses at various distances from the wharf. This has ensured the most prompt inspection of in-coming vessels. The extension of this rule to the quarantine steamers at other ports is under your consideration.

Mail Steamers.—This season your quarantine officer at Rimouski, instead of merely inspecting during the time occupied by the transfer of the mail to the mail tender has come up to Quebec on each mail steamer. This gives him full time for his inspection, and much lessens the delay at Grosse Isle when there is quarantinable disease on board. Dr. Lepage is the officer in charge of this service. If, as it is intimated, there are to be more than one mail steamer a week during the coming season, the question of increasing the number of inspectors will deserve your consideration.

Changes in staff.—During the last year Dr. Lepage has been appointed in place of Dr. Belisle, at Rimouski, Que.; Dr. McLeod, in place of Dr. Rindress, at Sydney, N.S.; and Dr. Morrison in place of Dr. O'Neil, at Louisburg, N.S.

Notification Inland.—A recommendation I deem of great importance would be the re-adoption of the immigration destination-notification system. This measure provided that, when immigrants arrive at our ports from infected places, or on vessels on which disease has occurred, the health officers at the places of destination should be sent notification cards informing them that immigrants from such-and-such places arriving on such-and-such ships are *en route* to their cities. In this way the local health officers may have oversight of immigrants from infected ports during, at least, the incubation period.

These notices should be sent from the port of arrival to the different provincial Boards of health, and by them communicated to the local health officers interested.

Sulphur Dioxide Fumigators.—To be ready for the ever possible extension of the threatening of Bubonic Plague envolving the expediency of the sulphur dioxide fumigation of vessels from the Orient, or from United States ports, portable sulphur dioxide fumigators on wheels have been provided at Victoria, B.C., and Vancouver, B.C. These can be drawn to the end of the piers for the deratisation, &c., of vessels it is desired to so treat.

Breasting out, &c., of Vessels.—The following regulations, for the prevention of the possibility of bubonic plague getting into this country by means of rats which come from vessels sailing from infected countries, were approved by you in August last to the various ports of Canada, on both oceans. These regulations had already been in force for some time on the Pacific coast.

1. It shall be unlawful for any vessel coming from any port where bubonic plague is present and entering any port of Canada, to be docked or moored at a less distance from any wharf than six feet.

2. It shall be unlawful for any vessel coming from any port where bubonic plague is present, and entering any port in Canada, to be secured or made fast to any wharf by any hawser or hawsers on which there is not placed a metal rat guard or funnel at least three feet in diameter and at least three feet from such wharf.

3. It shall be unlawful for any vessel coming from any port where bubonic plague is present, and entering any port in Canada, to be connected with any wharf by a gangway which is not guarded by some person there for the purpose of preventing rats from leaving such vessel by such gangway, and all gangways shall be lifted when not in use.

We have been advised by the Department of Justice that as the Department of Marine has charge of harbours generally, orders affecting vessels after they have passed quarantine and come into the farious harbours would more naturally fall within the jurisdiction of that department. Moreover the regulations in question could be enforced by the Harbour Master and other officials of the Marine Department without such increased expense as would be involved if this department had to appoint special officers in the various harbours for this purpose.

On your request the Department of Marine accepted this obligation, with the arrangement that we should notify them from time to time against which port or ports we advised it be enforced.

In accordance with this agreement I notified the Department of Marine on the 3rd January, 1913, of the finding of plague-infected rats at Liverpool, England, and on the following day instructions were issued by that department to their harbour masters on the Atlantic seaboard.

Official visits, inspection, &c.—On May 9, last, I visited, by your instruction, the Royal Alexandra Hospital for Contagious Diseases at Montreal. By permission of the Department of Public Works I was accompanied by Mr. Wright, their assistant chief architect. The object of our visit was in connection with the preparation of plans for the new hospital to be erected at the Grosse Isle Quarantine Station.

On May 19 I left for Toronto and attended the annual meeting of the Canadian Association for the Prevention of Tuberculosis.

On June 14 I left for the Atlantic coast, and inspected the leper lazaretto at Tracadie, N.B., and the quarantine stations of Chatham and St. John, N.B., Digby, Halifax, Sydney and Louisburg, N.S., Charlottetown, P.E.I., and Grosse Isle, Que., in the river St. Lawrence. Whilst in the Maritime provinces I had interviews with the secretary of the Provincial Board of Health of New Brunswick at Fredericton, and with the secretary of the Provincial Board of Health of Nova Scotia, at Middleton. I was accompanied as far as Halifax by Dr. Tremayne, your quarantine officer at Prince Rupert, B.C., who had been detailed by you to come east to study quarantine work at the Atlantic quarantine stations. On my return journey I stopped over at Rimouski to explain his duties to your new officer there, Dr. Lepage.

On August 4, I left for the west. I attended the annual meeting of the Canadian Medical Association at Edmonton, Alta., and then proceeded to the Pacific coast where I inspected at Vancouver, Victoria, William Head and Prince Rupert. On this trip I conferred with the provincial health officers of Manitoba, Saskatchewan, Alberta and British Columbia at their respective capital cities.

On September 15 I went to Toronto and attended the annual meeting of the Canadian Public Health Association, September 16-17. Thence I went to Washington, D.C., for the annual meeting of the American Public Health Association, September 19-21, and the XVth International Congress on Hygiene and Demography, September 23-28.

On October 23 I went to St. John, N.B., to superintend the installation of disinfecting appliances under the arrangement of inspecting service; and visited the Halifax, N.S., and Grosse Isle, Que., stations before returning.

On December 15 I went to Buffalo, N.Y., and was present at a meeting of the International Joint Commission *re* Boundary Waters.

Stations, &c., Grosse Isle, Que.—Vessels inspected, 384, an increase of 17 over last season; persons inspected, 210,677, an increase of 17,364 over last season; admissions to hospital, 947. The diseases were smallpox, scarlet fever, diphtheria, measles, rotheln, chicken-pox, mumps, dysentery and enteric fever. There were 13 deaths in hospital, from measles, 3; diphtheria, 1; scarlet fever, 2; mixed infection, scarlet fever and diphtheria, 3; broncho-pneumonia, 1; broncho-pneumonia, complicating diphtheria, 1; meningitis, complicating scarlet fever, 1; inanition, 1.

Smallpox was brought by two steamships, and two further cases occurred amongst those landed for observation. The disease was, in regard to both vessels, stamped out at quarantine.

Diphtheria was unusually prevalent amongst the young immigrants this year.

The year has been a busy one, especially at the hospital, where sometimes as many as 300 were under treatment at the same time.

Inoculations with serum was used 357 times; 459 bacteriological examinations were made, as well as many analyses in the laboratory.

The vaccinations exceeded 3,500.

The inspection service was improved in promptness and efficacy by the appointment of Dr. Joseph V. Coté, of St. Ignace, Que., as additional medical assistant to help in the boarding and clearing of in-coming vessels, and by your regulation, new this season, that the crews of the quarantine steamers must live on board, so as to be always on the spot, ready for immediate duty at the first call.

The improvements commenced last season were the new saloon passenger detention building, a laboratory, dwellings for medical assistants and for nurses, and an extension to the western wharf. These works are not yet quite complete, but it may be expected that they will be finished early this season.

The most pressing wants at this station are a new and enlarged hospital, a T at the end of the western wharf, and the replacement of the old third-class detention sheds by modern buildings.

Rimouski, Que., advance station of Grosse Isle, vessels inspected, 29. Dr. Lepage is now your officer there, and you enlarged his duties to include coming up on the mail steamer and inspecting her between Rimouski and Grosse Isle. This reduces delay at Grosse Isle when there is sickness on board.

Halifax, N.S.—Vessels inspected, 386; persons inspected, 157,499. Admissions to hospital, 115; diseases: measles, scarlet fever, and chicken pox.

Improvements made during this year have been a residence for the engineer, the disinfecting buildings, the old hospital, and the steward's residence and outhouses were repaired, and the disinfecting buildings and old hospital painted. The roadway recently constructed connecting the wharf and the disinfecting buildings with

the hospital is also a marked improvement. The saloon passenger detention building, the steerage detention building, the two small observation hospitals, the ambulance building and the tank require painting after repair. An icehouse is much required to keep perishable provisions fresh.

During the year four steamers were fumigated for rats. In some of these as many as 400 rats were killed.

One coastwise steamer was treated for the Marine Department for smallpox. The vessel was fumigated, the crew vaccinated and bathed, and their effects disinfected.

Captain Pye was appointed by you as Captain of the Quarantine Steamer *Minoca* from 1st January, 1913.

During the year we lost by death John O'Neil one of the crew of the *Minoca*, a capable employee.

St. John, N.B.—Vessels inspected, 149; persons inspected, 37,911. Admissions to hospitals, 32. Diseases: measles, meningitis, enteric fever, pneumonia, and mumps. Deaths, two; one from broncho-pneumonia, and one from marasmus. A laboratory, and residences for the bacteriologist, boatman and assistant caretaker are in course of construction. Some general repairs to roofs and to plumbing have been carried out. A new telephone cable has been laid. The water pipe gave out early last autumn. Since then the Station has had to depend upon water brought down from the city by tug, and pumped up to the buildings. The new ambulance has been of great service.

With regard to the requirements of this Station, its Medical Superintendent reports: 'Our most pressing need is a wharf out to low water, and a government-owned boat. A wharf where our boat can lay with her crew on board, so as to be obtainable at all times. Many times as it is now it is impossible to get aboard the quarantine tug on account of the big seas running, and at low water often impossible. Several times this winter we have had to leave the patients on board the ship from one to two days before we were able to land them. Before we will ever be able to board vessels and bring the sick off safely and humanely, the wharf and boat I speak of will have to be furnished.'

Digby, N.S.—This Station was made a regular one by you this year for the quarantine handling of vessels coming in through Digby Gut to Digby and other ports of the Annapolis Basin. Dr. DuVernet reports that during the 10½ months since his appointment 11 vessels have been inspected. No quarantinable disease was found.

Sydney, N.S.—Vessels inspected, 112; no quarantinable disease.

Louisburg, N.S.—Vessels inspected, 40. No disease.

Chatham, N.B.—Vessels inspected, 44; persons inspected, 1,058. No quarantinable disease.

Charlottetown, P.E.I.—Vessels inspected, 4. No inspection of vessels from the neighbouring province has been required during the year.

William Head, B.C.—Vessels inspected, 162; persons inspected, 36,318. Three vessels were quarantined on account of smallpox. The last came in yesterday with one case amongst the saloon passengers and one amongst the steerage.

The diseases reported at the Station were smallpox, diphtheria, chickenpox, mumps, enteric fever, and beri-beri.

Two vessels had had cases of plague on board, and two vessels had had cases of cholera on board between Hong Kong or Shanghai and Japanese ports.

The saloon passenger detention building is being bettered by addition of new bath rooms and closets, laundry, quarters for stewards in attendance, and the installation of hot water heating for the main building.

General repairs and some improvements have also been carried out.

Victoria, B.C.—No vessels required inspection at this port during the year.

Vancouver, B.C.—Vessels inspected, 1. No quarantinable disease.

Portable sulphur dioxide disinfecting appliances have been provided for the ports of Victoria and Vancouver as referred to before in my report.

Prince Rupert, B.C.—No quarantinable disease. The new wharf at the station is practically complete.

Tracadie Leper Lazaretto, N.B.—Patients at present, 21: 11 males and 10 females. Seventeen are of French Canadian, two of English, one of Icelandic and one of Russian origin. No deaths and no fresh admissions during the year. Treatment with Nastin and Chaulmoogra oil is being further tested.

D'Arcy Island Leper Lazaretto, B.C.—Four Chinese lepers were admitted during the year, one died at D'Arcy Island. The other three were deported to China under the immigration regulations.

Public Works Health Act.—Your inspector for eastern Canada under this Act, Mr. Charles A. L. Fisher states that the year has been again an exceptional one in the almost non-appearance of contagious and infectious diseases among the men on the works coming under his inspection, except 8 cases of enteric fever in some of the camp hospitals.

He reports that he has found the medical service given to be complete, and the sleeping quarters and boarding of the men to be fully equal to the very good conditions in that way reported previously.

Your inspector for western Canada, Dr. A. E. Clendenan, reports that the volume of work has greatly increased during the last three years with more than ever in prospect for the next twelve months. He reports that with few exceptions, the medical service has been up to the requirements of the Act, and bona fide complaints are few. Camp sites have been nearly always wisely chosen, with a view to drainage and water supply, as well as convenience to the work.

The general health conditions have been exceptionally good.

On all work there were 17,046 employed at the time of inspections.

I have the honour to be, sir,

Your obedient servant,

F. MONTIZAMBERT, M.D.,
Director-General of Public Health.

The Honourable
The Minister of Agriculture,
Ottawa.

APPENDIX No. 2.

(G. E. Martineau, M.D.)

Grosse Isle, Que., March 31, 1913.

Sir,—I have the honour to submit this my annual report to March 31, 1913, as medical superintendent of the Grosse Isle Quarantine Station.

During the season there were 384 vessels inspected and cleared, being an increase of 17 over last season. Of these only two were sailing vessels.

Two hundred and twenty-one of these vessels were passenger boats which class comprised 58 per cent of the total.

There were inspected of all classes of passengers and crews 205,549 persons, being an increase of 12,235 over last year, and about 10,000 over any previous year.

They were divided among the various classes as follows:—

Cabin	6,292
Intermediate	45,127
Steerage	107,597
Cattlemen	165
Crew	51,437
Stowaways	59

Infectious or contagious diseases were reported or discovered on vessels arriving at Quarantine on 108 occasions, as compared with 102 last season.

The diseases so reported or discovered were: variola, scarlet fever, diphtheria, measles, rothelm, varicella, mumps, enteric fever and dysentry.

On one occasion a steamer arrived at quarantine with a very suspicious case of cholera on board.

Variola was discovered on two occasions, May 26, on the ss. *Tunisian*; and on June 26, on the ss. *Pretorian*.

Every passenger steamer coming up the St. Lawrence landed infectious diseases at quarantine on one or more occasions.

Deaths during the voyage were reported on 22 occasions due to the following causes: Lost overboard, 3; heart disease, 4; suicide, 2; epilepsy, 1; pneumonia, 5; cardiac failure, 1; nephritis, 1; gastritis, 1; broncho-pneumonia, 2; acute indigestion, 1; convulsions, 1.

Births during the voyage were reported on 10 occasions.

Twice, steamers arrived with passengers who refused to be vaccinated; they were landed for usual period of detention.

Over 700 people have been landed at healthy division for necessary period of observation; but a good many of these have been detained as long as 39 days, owing to new cases breaking out after landing.

One of the female passengers on ss. *Tunisian* gave birth to a child while detained for observation.

Vaccination exceeded 3,500.

Suspicious case of Cholera.—SS. *Pretorian*, Capt. Hamilton, sailing from Glasgow on July 12 with 57 intermediate, 96 steerage passengers and 121 crew, arrived at quarantine on July 22, with on board a member of the crew ill with symptoms resembling those of Asiatic cholera. The history of that case prior to its arrival at

quarantine was the following; Patient had been taken ill on July 18 with diarrhœa, vomiting; and this had lasted for the four days then elapsed. When first seen at quarantine, he was collapsed, had a weak rapid pulse and showed pale cheeks and blue lips with subnormal temperature. This case was looking so suspicious that, under the circumstances, we found it more prudent to satisfy ourselves with a bacteriological examination of the patient's stools. The results having been negative, the vessel was immediately released after a detention of 12 hours for such bacteriological examination. This case was simply gastro-enteritis, and having fully recovered, was discharged, from the hospital on July 27.

Smallpox.—S.S. *Tunisian,* Capt. Rennie, sailing from Liverpool on May 17 with 49 cabin, 330 intermediate, 1,059 steerage passengers and 277 crew, arrived at quarantine on May 26. On making the inspection of steerage passengers we discovered a case of smallpox which was immediately transferred to quarantine hospital. All exposed passengers (538) and crew (32) have been landed for a quarantine of observation, and compartments on board occupied by these thoroughly disinfected. Everybody on board was also vaccinated as usual and the vessel released and permitted to proceed after a detention of 17 hours for those formalities.

Two new cases broke out amongst people landed and detained under observation. The first one being on the 11th June with a member of the crew, and the other one with a foreigner passenger on the 16th of the same month. Both patients were at once transferred to smallpox hospital for treatment.

On the 13th June, 359 of the passengers who had been successfully vaccinated and thoroughly disinfected at quarantine were released; all the rest being kept under observation on account of the new case that had developed. On the 29th June, 137 detects who had had no communications whatever with the second case that had broken out were released; and the balance on the 4th July. All cases of smallpox having fully recovered were discharged from hospital on the following dates: July 9, July 23 and August 12.

The second case of smallpox found on board vessels was discovered amongst steerage passengers of s.s. *Pretorian* which sailed from Glasgow on June 17 with 138 intermediate, 103 steerage passengers and 142 crew, and arrived at quarantine on June 26. All exposed steerage passengers (103) and crew (31) having been landed for usual period of detention, compartments occupied by them thoroughly disinfected and everybody on board vaccinated, this vessel was released after a detention of nine hours.

There were also landed from that steamer 14 firemen who refused to be vaccinated.

No other cases having developed amongst passengers detained under observation they were all released on July 14. Patient having fully recovered was discharged from the hospital on August 6.

The year has still been a very busy one at the station, especially at the hospital where we constantly had to treat a number of patients varying from 25 to 300 at the time.

Preventive treatment by serum has been given to 357 passengers.

Four hundred and fifty-nine bacteriological examinations with many other analysis have been made at the laboratory during the season.

The total number of admissions at the hospital being 947 which is an increase of 109 as compared with last year.

There were 13 deaths and one premature birth.

Deaths were due to following causes or diseases: Measles, 3; diphtheria, 1; diphtheria complicating scarlet fever, 3; scarlet fever, 2; broncho-pneumonia, 1; broncho-pneumonia complicating diphtheria, 1; meningitis complicating scarlet fever, 1, inanition, 1.

Diphtheria.—Quite an epidemic of this disease threatened to spread over the hospital this season on account of lack of accommodation for the great number of patients that were therein at the time.

On November 6, s.s. *Polanza* arrived at quarantine with many cases of different kinds of infectious diseases, especially of diphtheria. The hospital was at the time so full up with patients that we had to use tents to extend accommodaion to some of them. It was thus difficult not to say impossible for us to prevent communications between the different groups, the consequence being that the malady began then to spread rapidly. I instantly removed to the western end of the island all those persons who had not had the disease, and kept them there until all danger had disappeared.

With many precautions and injections of anti-diphtheritic serum we positively succeeded to stop the spread of the disease and to stamp it out entirely.

This is another fact that will show the necessity of having a new hospital built immediately.

Circular Letters.—Letters drawing attention to special cases have been received during season on the following dates: June 13, re Plague bacillus found on steamer from Calcutta bound for Trieste. June 20, re Bubonic plague at San Juan, Porto Rico; and August 10, re Bubonic plague at Liverpool.

The inspection of vessels from those different places have been the subject of special care.

Quarantine Staff.—Dr. L. F. Lepage, who was appointed this year as Medical Quarantine Officer at the Rimouski substation, has been, by your decision, instructed to come up on the mail steamers and make medical inspection between Rimouski and Grosse Isle. This has had for effect to reduce to a minimum the delay caused to those vessels at quarantine; as we only have now to land the quarantinable diseases without making further inspections.

The addition to the staff of another Medical Officer at Grosse Isle has been also of great help in giving dispatch to steamers, and no doubt must have been appreciated by the steamship companies.

The arrangement for our crews to live on board their respective vessels may also be regarded as an important improvement in the service. This tends to give quick dispatch to steamers; the crews being from that fact always on the spot ready for duty at the first call.

Improvements.—A great step has been made this year towards equipping our station with modern buildings, &c., which will prove most convenient to meet emergencies at any time, and will contribute also to avoid complaints from the part of passengers as well as of steamship companies.

The most important improvements consisted in the erection of a new detention building for the first-class passengers; the erection of a laboratory; the extension of western wharf and new buildings for medical assistants and hospital nurses. These works are not quite completed yet, but it is expected that they will be early next season.

The new laboratory will give our bacteriologist every facility to carry out properly his work throughout the whole season. A complete set of most modern laboratory appliances, &c., will be installed therein, and we will then have an equipment of inestimable value for the diagnosis of infectious diseases as well as for any other kind of chemical and bacteriological work.

When the first-class passengers' building is completed according to our plan, we will have at our disposal one of the most modern buildings of the kind to accommodate these.

The addition of a new 200 feet length to the western wharf is not also the least improvement which has been carried out at this station this year. This was recognized as a great necessity since long ago. While offering for the present a far safer shelter to our quarantine boats, it is, I have reason to hope, a first step towards the realization of the construction of a deep-water wharf. I may perhaps be permitted to say here that another length of about 200 by 100 feet put across the end of that actual wharf so as to form a 'T,' with two solid piers of 25 feet square at about 100 feet distance from each end of crossing head would be sufficient, I believe, to allow any steamer detained in quarantine to moor alongside of it. This would reduce to its minimum the delay caused to infected steamers which have to land their passengers, baggage, provisions, etc., and which have to depend at present upon our small quarantine boats to do that work. The disinfection of steamers could also be carried out more promptly, and I am sure that this would be beneficial to both shipping companies and quarantine service.

Requirements.—As stated above, one of the most urgent needs is unquestionably the immediate construction of a new hospital so as to give better accommodation and comfort to the patients, who are always increasing in number every year; and also prevent thereby the spread of the contagious diseases. Since a few years, the admissions at the hospital have been so numerous that we had to use tents to give shelter to some of them; but this is far from being satisfactory. An idea of the plan for this proposed new hospital has already been submitted to you, and I have reason to believe that this will be carried out next season.

The replacing of the *Alice* by a larger steamer fitted as an ice-breaker is also necessary for the station. This has been rendered expedient by the fact that since a few years the station closed only at end of December—and two years ago was kept open all winter—and our present boats not being built for winter navigation, were unable to continue the station service during that time. We had in those circumstances to apply at the Marine and Fisheries Department for an ice-breaker which was always inconvenient and detrimental to both Quarantine and Marine Services. It has further been experienced that the *Alice* is now too small to properly accommodate the ever-increasing number of immigrants which we have to transfer regularly from the Island to Quebec, together with station supplies, &c.

The old wooden sheds which have been built in 1848 should be replaced by modern brick buildings and appliances.

There are also many other works and repairs of first necessity to be attended to at once, the list of which has already been submitted to you.

We had the honour of your official visit this year, when you had the opportunity to convince yourself and note the different improvements required for this station.

The whole respectfully submitted.

I have the honour to be, sir,

Your obedient servant,

G. E. MARTINEAU, M.D.,
Medical Superintendent of St. Lawrence Quarantine Service.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 3.

(N. E. MacKay, M.D., M.R.S.C.)

Halifax, N.S., March 31. 1913.

Sir.—I have the honour to submit my annual report for the year ended March 31, 1913.

There were 386 vessels inspected during the year, and 157,499 persons classified as follows:—Cabin, 5,286; intermediate, 22,178; steerage, 115,879; crew, 36,327; and 7 cattlemen.

Considerable disease occurred on board the following vessels in the order of their arrival: *Scandinavian* (measles), *Campanello* (diphtheria), *Virginian* (scarlet fever), *Barbarrasa* (scarlet fever), *Royal Edward* (measles), *Scotian* (measles), *Corsican* (measles), *Parisian* (scarlet fever), *Canada* (measles), *Gray Walleree* (measles), *Tunisian* (measles), *Ultonia* (measles), *Mongolian* (measles), *Pomeranian* (measles), *Russia* (chickenpox and measles), *Uranium* (measles), *Empress of Britain* (measles), *Tunisian* (chickenpox), *Hesperian* (measles), *Potsdam* (measles), *Grampian* (measles), *Uranium* (measles), *Royal Edward* (measles), *Dominion* (measles), *Corsican* (measles), *Empress of Ireland* (measles), *Krusk* (scarlet fever), *Teutonic* (measles), *Dominion* (measles).

Sickness other than quarantinable diseases was found on the following vessels:—*Canada* (scrofula), *Birma* (pneumonia), *Russia* (pneumonia), *Volturno* (appendicitis), *Empress of Ireland* (whooping cough and mumps), *Victorian* (mumps).

Death was reported to have occurred on the voyage on the following steamers: *Barstoe* (heart disease), *Birona* (2 deaths, causes not given), *Georgia* (accident).

There were 115 persons detained at the station hospital during the year, classified as follows:—Measles 31, chickenpox 7, scarlet fever 3, well persons (members of families of the sick) 78.

One of the children ill with scarlet fever developed middle ear disease which later involved the mastoid cells, and a *stäcke-schwastege's* operation was performed and the child made a good recovery.

The following much needed improvements and repairs were made at the station during the year just ended: A residence for the engineer at the station was erected. The house is very nice and comfortable. The disinfecting building, the old hospital, and the steward's residence and outhouses were put in good state of repairs, and the disinfecting buildings and old hospital were painted. They look well. The steerage detention building, the first class detention building, the two small hospitals on top of the hill, the ambulance building and the water tank are being repaired. All the buildings are to be painted, I understand, as soon as the repairs are completed.

All the broken down plaster in the new hospital was repaired, and the woodwork and plaster inside the building were painted. The building is to be painted outside as well. The hospital is now in a fine state of repair and is a credit to the station. Then again a concrete tank was constructed where the soilpipe from the building empties into the harbour. This was necessary to protect the pipe against frost and also to improve the sanitary condition of the institution.

A road was constructed along the shore connecting the disinfecting buildings with the new hospital. This road lowers the grade considerably—it was made for this purpose—and make it much easier to haul coal from the wharf to the different buildings. In the old road the grade was so high that it was as much as a horse could do to haul the ambulance empty up the hill. The new road should be extended along the shore to the old (German) hospital.

An ice-house should be erected at the station for our own use as well as for the use of the resident staff. It is much needed to keep perishable provisions always fresh.

During the year four steamers, owned by Messrs. Pickford & Black, and trading between this port and the West Indies were fumigated for rats, the holds with sulphur dioxide and the other apartments with formalin and permanganate of potash. In some of the steamers as many as 400 rats were killed.

The ss. *Cromarty* was fumigated for the Marine Department for smallpox and the crew were vaccinated, and bathed, and their effects disinfected with hot steam and formalin and permanganate of potash. This steamer running coastwise from St. John, N.B., brought a case of smallpox into port.

A new captain was appointed on the ss. *Minoca* on the first of January. Capt. Pye is a very capable master. He maintains good discipline, what was much needed, and he also sees that every member of the crew does his work.

We need a young fellow who would keep the captain's room, saloon, doctor's room, and bunks, neat and clean. We needed a man like this more than a new deckhand.

Occasionally we have some trouble with agents of immigration ships. To get rid of the expense of maintaining non-quarantinable diseases steamboat agents want us to take to the station every kind of disease. To carry their point a most absurd diagnosis is often made.

During the year we lost by death, Mr. John O'Neil, a most capable officer.

My assistant, Dr. V. N. MacKay, has done his work well. The nurse and matron, Miss Himmelman, is deserving of every praise for the way in which she keeps the hospital and looks after the sick. We have an ideal hospital.

I have the honour to be, sir,

Your obedient servant,

N. E. MacKAY, M.D., M.R.C.S.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 4.

(R. C. Reddick, M.D.)

St. John, N.B., March 31, 1913.

Sir,—I have the honour to submit my annual report for the year ending March 31, 1913.

During the year just ended we have inspected at this station 149 vessels.

The total number of persons inspected were 37,911. Classified as follows: 1st cabin, 898; 2nd cabin, 5,129; steerage, 21,126; cattlemen, 26; crew, 10,133.

There were treated at our hospital during the year 32 cases, for the following diseases: measles, meningitis, typhoid fever, pneumonia and mumps. Two deaths occurred, one from broncho-pneumonia and measles, and one from marasmus.

We have now in our hospital one case of pneumonia, one of meningitis, and a number of cases of measles.

Improvements.—I might say that our new cottages, one for the bacteriologist, one for the boatman, one for the assistant caretaker, and a bacteriological laboratory, are in course of construction. Owing to the cold and stormy weather, and the lateness of the season in which the work was commenced, has hindered a speedy completion.

A general overhauling in the plumbing of the different buildings has been done. Considerable shingling has been done. Our roofs were in a very bad condition owing to the salt air rusting off the nails in the shingles. The nails will not last more than eight or ten years. The new shingling was done with galvanized nails, which are also used in the shingling of our new buildings.

A new telephone cable has been laid, and is giving fairly good service, the old one gave out beyond repair.

Our water pipe gave out early in the fall, since then we have been getting our water by tug from the city, and pumping it up to the different buildings. I believe a new pipe is to be laid this coming spring, which I hope will solve the long needed water problem. A new concrete walk has been laid at the medical superintendent's house, and blasting of rock and grading on the roads have been done. We have a new ambulance, which has been of very great service.

Our most pressing need is a wharf out to low water, and a government owned boat. A wharf where our boat can lay with her crew on board, so as to be obtainable at all times. Many times as it is now it is impossible to get aboard the quarantine tug on account of the big seas running, and at low water often impossible. Several times this winter we have had to leave the patients on board the ship from one to two days before we were able to land them. Before we will ever be able to board vessels and bring the sick off safely and humanely, the wharf and boat I speak of will have to be furnished.

Quarantine Staff.—I am pleased to inform you of the splendid service given me this winter by Dr. J. J. Heagerty, in the way of boarding and general assistance for the good of our station; Dr. Heagerty is always ready and willing at a moment's notice, night or day. And being on the city side of the harbour, he could get the tug and board a vessel when the tug could not get to me on the Island. I am pleased to say he has saved the shipping men and quarantine service a great deal of inconvenience by his promptness and ability.

We had the pleasure and honour of you and your private secretary to visit us at this station during the last summer. And after your careful inspection of the station you found many needs and improvements necessary to have the work carried out in the interest of public health.

With the bright prospect of a new water pipe, a new wharf, and a new boat, I think I can safely say that these needs supplied, no word of complaint would be heard regarding our quarantine station.

I have the honour to be, sir,

Your obedient servant,

R. C. RUDDICK, M.D.,
Medical Superintendent, St. John Quarantine Station.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 5.

(Edward DuVernet, M.D.)

Digby, April 1, 1913.

Sir,—I beg to report that for the ten and a half months that this quarantine station has been established eleven vessels have been inspected, all of which were found to be free from infectious diseases, and were released from quarantine within two hours after arrival.

I have the honour to be, sir,
Your obedient servant,

E. DuVERNET, M.D.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 6.

(Wm. McK. McLeod, M.D.)

North Sydney, C.B., March 31, 1913.

Sir,—I have the honour to forward my report for the year ending March 31st, 1913.

During the year there arrived at quarantine anchorage for inspection 112 vessels —96 steamships and 16 sailing vessels.

No quarantinable diseases were found on any of the vessels inspected.

I have the honour to be, sir,
Your obedient servant,

Wm. McK. McLeod, M.D.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 7.

(D. A. Morrison, M.D.)

Louisburg, N.S., April 1, 1913.

Sir,—I have the honour to submit herewith my report for this station for the year ended March 31, 1913.

The total number of ships inspected at this port for the year was 40. From the 6th of August, 1912, on which date I assumed charge of the station, to the 31st ult., I inspected 16 ships, having on board 1,731 persons, classified as follows:—

Seventy-eight cabin, 1,048 steerage, 1 stowaway, and 604 crew.

No quarantinable disease was found on any of the ships inspected.

I have the honour to be, sir,
Your obedient servant,

D. A. MORRISON, M.D.

The Honourable the Minister of Agriculture,
Ottawa, Can.

APPENDIX No. 8.

(J. Baxter, M.D.)

Chatham, March 31, 1913.

Sir,—I beg leave to submit the following report for the year ending to-day. The number of vessels examined by me was in all 44, consisting of 31 steamers, 1 ship, 7 barques, 3 barquentines, 1 four-masted schooner, 1 petrol auxilliary schooner.

The number of men examined was 1,058.

There was found no quarantinable disease. Among the vessels there were two of the largest craft that ever were in the river, viz.: Ship *Nordfarrer*, 2,699 tons; ss. *Thode Fageland*, 2,826 tons.

I have the honour to be, sir,

Your obedient servant,

J. BAXTER, M.D.

The Honourable,
The Minister of Agriculture,
Ottawa.

APPENDIX No. 9.

(Peter Conroy, M.D.)

Charlottetown, P.E.I., March 31, 1913.

Sir,—I have the honour to submit my report for the year ending March 31, 1913.

There was no case of contagious disease at the station during the past year.

The neighbouring provinces against which this island enjoys federal quarantine protection have been free during the past year from epidemic disease, and vessels from ports in these provinces were allowed pratique without inspection. There were four inspections of vessels from across the sea and West Indies.

The unusually stormy weather of the past season had the effect of compelling a number of sailing vessels, bound for this port, to seek shelter at different harbours of Nova Scotia and make customs entry there.

The winter steamers made regular trips to this port during the past season, excepting in an interval between the 10th of February and the 18th of March, when they were on the Georgetown-Pictou route. The steamers resumed their sailings to this port on March 18, and will now continue on this route until the regular opening of navigation.

The requirements of the service at the station are well supplied.

I have the honour to be, sir,

Your obedient servant,

P. CONROY, M.D.,
Inspecting Physician.

The Honourable
The Minister of Agriculture,
Ottawa.

APPENDIX No. 10.

(A. T. Watt, M.D.)

William Head, B.C., March 31, 1913.

Sir,—I have the honour to submit this my report of transactions at William Head quarantine station for the twelve months ending March 31, 1913.

During the twelve months 162 vessels were inspected. There were 4,940 cabin passengers and 17,653 steerage passengers on these vessels and the members of the crews numbered in all 13,725.

Vessels were quarantined at three different times on account of smallpox. The ss. *Monteagle* arrived April 16, 1912, and reported that a case of smallpox had been discovered amongst Chinese steerage passengers shortly after leaving Japan, and that the patient had been at once isolated. During the first night in hospital the Chinaman had hanged himself. The body was buried at sea. The steerage from which this man had been taken was separated from other parts of vessel and owing to the fact that disinfection of compartment was possible and had apparently been thoroughly carried out, it was considered in view of this and the circumstance of the early isolation of the case that the period of detention might be dated from the day the disinfection was done on board vessel. After further precautionary disinfection here the steamer was released with the saloon passengers and such of crew as were found to be satisfactorily protected by vaccination. The steerage passengers and some of crew were held at station but no further case developed. The ss. *Roman*, a halibut vessel, was sent down from New Westminster on May 8, 1912, by the provincial health authorities, as a case of smallpox had been found amongst crew. The steamer was disinfected and all on board vaccinated. Then the vessel was allowed to proceed to fishing grounds. On returning all were in good health and were released. The expenses of disinfecting this vessel were met by the owners. At this date the ss. *Monteagle* is again in quarantine. The steamer arrived on the 30th instant and the report was given that one of saloon passengers had developed varioloid on the night of the 28th. On examination of steerage passengers one of Chinese was found also to have varioloid and to be showing much the same development. Both passengers had come on board at Hong Kong, on March 8, so that the infection presumably was from an exposure in one of the ports in Japan, possibly from an ambulant case amongst the stevedores. All passengers have been landed also a number of the crew and the vessel which is undergoing disinfection is upon completion to be released.

Cases of diphtheria were found on ss. *Monteagle*, arriving June 22, 1912, and on ss. *Marama*, arriving January 9, 1913. These cases were by arrangement treated at the city isolation hospitals at Victoria and Vancouver. One case of chicken-pox, a child arriving by ss. *Inaga Maru*, on July 4, 1912, was treated at hospital here. This case and the two cases of smallpox now here are the only cases of infectious disease which have been cared for at the hospital at William Head during the year. Cases of mumps, typhoid fever and beri-beri have been found amongst crew of different vessels but as they were convalescing and being properly cared for and isolated they were not landed here.

Two vessels had had cases of plague on board and two vessels had had cases of cholera on board between Hong Kong or Shanghai and Japanese ports. In each instance the measures taken at the quarantine stations in Japan where the cases were discovered, prevented further outbreak.

There has been less disease in Hong Kong and districts around Canton latterly than has been the case for a number of years past. In consequence the routine disinfection of Chinese steerage passengers and their effects has been discontinued by your order given December 20, 1912. Passengers from Japan still undergo the routine disinfection.

There have been several improvements commenced or carried to completion during past twelve months. The saloon passenger accommodation is being bettered by addition of new bath rooms and laundry, quarters for stewards in attendance, and by installation of a system of hot water heating for the main building. A hall which will be available for various purposes, such as church service or for entertainments or for other additional accommodation is being built close to. Bath rooms are also under contract at the disinfection building, and some of the wood partitions are to be replaced by brick walls. When this work is completed the building will be more sanitary and more proof against fire. Four extra baggage cars have been purchased. These will permit of baggage being handled more readily. A 20 h.p gasoline plant has been installed for electric lighting of station. This will be cheaper to operate than the steam plant, which now need be run only when the full lighting capacity is called for, when all buildings are occupied at a time of quarantine. New ranges have been put in at the various detention buildings and at some of the other buildings where needed. Slates have been put on roof of superintendent's residence and on smallpox hospital, and some painting has been done to these buildings and to sheds on wharfs. General repairs have been effected at wharfs, and new fender piles driven. Some repairs to roads have been made and a new bridge built.

D'Arcy Island Lazaretto was used for accommodation of four Chinese lepers while awaiting deportation under the Immigration Act. The death of one man occurred at the island, but the other three cases were deported on proper arrangements being made for their accommodation The expense of this and of their detention at the island were met by the steamship companies who had brought these Chinese to Canada.

The station was visited by yourself during the summer, and also by Dr. F. Montizambert, Director General of Public Health, and the further needs of the station inquired into.

I have the honour to be, sir,

Your obedient servant,

A. J. WATT, M.D.,
Supt. B.C. Quarantines.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 11.

(R. L. Fraser, M.D.)

Victoria, B.C., March 31, 1913.

Sir,—I beg to submit my report for the year just ended. Coasting vessels being exempt from quarantine regulations. No inspections were made at this port during the year.

On 30th instant I visited William Head station to confer with Dr. Watt *re* disease on ss. *Monteagle*.

I have the honour to be, sir,

Your obedient servant,

R. L. FRASER, M.D.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 12.

(J. D. Hunter, M.D.)

Victoria, B.C., April 10, 1913.

Sir,—I beg to submit my report as bacteriologist at the William Head quarantine station for the year ending March 31, 1913.

The laboratory has not been required for government purposes during the year, but everything therein is in order and in readiness for any work that may be required.

In May, 1912, at the request of the superintendent, I visited the plague laboratory at Seattle, Washington. While there I was extended every courtesy by Dr. Lloyd, the official in charge and under his direction was given great assistance in studying the morphology, &c., of the B. Pestis.

I have the honour to be, sir,

Your obedient servant,

J. D. HUNTER,
Bacteriologist and Assistant Medical Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 13.

(L. N. MacKechnie, M.D.)

Vancouver, B.C., April 20, 1913.

Sir,—I have the honour to submit as follows, my report for the year ending March 31.

One vessel has been examined and no case of infectious or contagious disease was found.

A sulphur fumigator has been received and is under cover at the entrance of No. 2 freight shed of the Canadian Pacific Railway Company by their permission.

I have the honour to be, sir,

Your obedient servant,

L. N. MacKECHNIE, M.D.,
Quarantine Officer.

The Honourable the Minister of Agriculture,
Ottawa.

APPENDIX No. 14.

(H. Ernest Tremayne, M.D.)

Prince Rupert, April 1, 1913.

Sir,—I have the honour to make my annual report for the year ending March 31, 1913.

No quarantinable diseases of any kind have arrived at this port.

I am glad to inform you that the wharf at the station is practically completed.

Owing to the early completion of the Grand Trunk Pacific railway, and the establishment of a direct line of steamships with the Orient, it will be necessary to proceed very shortly with the erection and equipment of the necessary buildings at the station, in order to have everything in readiness when requird.

I have the honour to be, sir,

Your obdient servant,

H. ERNEST TREMAYNE.

The Honourable
The Minister of Agriculture,
Ottawa.

APPENDIX No. 15.

(J. A. Langis, M.D.)

Tracadie, N.B., March 31, 1913.

Sir,—I have the honour to submit this my annual report as medical superintendent of the lazaretto at Tracadie, N.B.

There are at present 21 patients in the institution, 11 males and 10 females.

No deaths and no admissions during the year.

Seventeen of our patients are of French, two of English, one of Icelandic and one of Russian origin.

Their ages vary from nine to eighty-one years. They have generally been exempt from intercurrent illness but for the exception of one case of erysipelas and one of erythema nodosum.

I have as in former years, visited every four months, these sections of the province, which furnish from time to time, our patients for the lazaretto, and I am pleased to say, that the families suspected and so visited are all free from the disease.

The Dr. Deycke's nastin therapy followed here since May, 1911, is giving fairly satisfactory results.

I had at first fifteen patients to treat and gave between thirty-six to sixty-eight injections of nastin to each. With this, as with any other treatment, a few patients attributed intercurrent illness to its use, and refused it, after a few injections.

As it was most earnestly recommended by the discoverer, to give the nastin treatment, the form of a chronic intermittent treatment. I have followed his advice, and think it the proper mode to use it.

Generally the patient suffers from ten to thirty minutes, from the burning sensation produced by the medicine at the place of the injection, but after this abates, he has a general sensation of warmth, feels stimulated and stronger.

With mostly all patients there is an elevation of temperature for a few hours after the injection, which varies from one to two degrees.

Old anaesthetic cases are very little helped by Nastin, but we have discharged two patients who were at the early stage of this type of leprosy. One, a man of thirty-nine, left a year ago, he received only twenty injections of nastin. I have visited him twice since and he remains well. The other case, a man of sixty-seven, left in November last, he had received sixty injections. I saw him recently and found him in good health, free from the disease. Both had been taking the old treatment, chaulmoogra oil, strychnine, &c.

Another case of mixed leprosy is that much improved that I have great hopes to discharge him in the near future.

With five nodular cases, there has been, for a certain time, arrest of the leprous process with some retrogression of the leprous symptoms. Three of these are certainly better to-day, the two others are in the last stage of the disease.

With this treatment by nastin the patients have been taking the chaulmoogra oil, strychnine, &c., and would not stop it, only when it interferes with their digestion. Thus the old treatment is still the most popular.

In conclusion, nastin has some beneficial effect on some of our cases of leprosy and I am still using it for a few of them.

The patients are supplied with musical instruments and some games, to help them pass away the time and divert their thoughts from themselves. They are taking advantage of these amusements and seem to enjoy them. The Sisters make every effort to contribute to their physical and moral comfort and respond to many calls by day and by night.

I have the honour to be, sir,

Your obedient servant,

J. A. LANGIS, M.D.

To the Honourable
The Minister of Agriculture,
Ottawa.

APPENDIX No. 16.

(Chas. A. L. Fisher, J.P.)

Montreal, March 31, 1913.

Sir,—I have the honor to submit this my report for the twelve months ended March 31, 1913, as Public Works (Health) Inspector, for the territory from Winnipeg east to the Atlantic ocean.

During that period I have personally visited and inspected all such works covered by the Public Works (Health) Act, 1899, as have been brought to my notice.

The term has again been an exceptional one, in the almost non-appearance of contagious and infectious diseases among the men employed on the various public works of the Dominion, coming under my inspection but there have been a good many cases of typhoid fever in the camp hospitals, mostly on the new construction work of the Canadian Northern railway, east from Port Arthur.

I am pleased to be able to report again, that on my several tours of inspection of the public works of the Dominion in my district for the past year, I found the medical service given to be complete, and the sleeping quarters and boarding of the men to be fully equal to the very good conditions in that way reported previously.

The number of public works coming under the regulations of the Act, in the territory east of Winnipeg, have been comprised exclusively of railway construction, and include the Canadian Northern Railway Tunnel under the Mountain at Montreal.

The following is a detailed report of the works I have personally visited and inspected during the past twelve months, as coming under the regulations of the Public Works (Health) Act, 1889:

NATIONAL TRANSCONTINENTAL RAILWAY.

This road is being built by the Dominion Government, and at present all the sections between Winnipeg and Moncton, N.B., are under construction, or have been completed.

I am pleased to report that on my visits to the works on said sections I found, as previously, excellent hospital accommodation provided, and a duly qualified physician as district medical supervisor over each section of camps, which could be conveniently covered by him within the requirements of the regulations.

With the exception of some cases of typhoid fever, there had been no outbreak of contagious diseases, and the health of the men had been excellent.

I give below the extent and location of the camps, with other particulars of the works carried on by the various sub-contractors:

Superior Junction Section.—From Superior Junction east for 150 miles to Junction of the Western section let to Messrs. E. F. & G. E. Fauquier. This is under contract to Messrs. O'Brien, Fowler & McDougall Bros., who have their headquarters at Superior Junction, Ont.

J. E. Joseph, of Pembroke, Ont., is the chief medical officer for the contractors, and J M. McGrady, M.D., of Port Arthur, is the medical officer in charge of the work.

Superior Junction Camps.—Six gravel pits operated by the contractors, and the Pembroke Contracting Company, and Messrs. Morris, Mackie & Co., being the sub-contractors, also a steel gang operated by the chief contractors.

About 900 men were employed, who were located in eight camps, and housed and boarded in log and board dwellings by the contractors and sub-contractors, and the steel gang in boarding cars.

There were no cases of contagious disease, and the health of the men and the sanitary conditions were good. There have been a few minor accidents, but no deaths. Two good hospitals are maintained on the work, one located about twelve miles from Superior Junction, and the other towards the east end of the contract. W. Graham, M.D., and G. E Denison, M.D., have been the medical officers in charge, with John Brandon, MD., as general medical supervisor.

Nipigon Section.—From the east end of O'Brien, Fowler & McDougall Bros.' contract, east 75 miles. This is under contract to Messrs. E. F. & G. E. Fauquier, of Ottawa, who have sub-let it to the Nipigon Construction Company, Limited, who have their head quarters at Nipigon, Ont. This work is about completed.

Missanabie Section.—This is under contract to Messrs M. P. & J. T. Davis, of Quebec, who have sub-let it to Messrs. O'Brien, McDougall & O'Gorman, the contract covering the route from the east end of the Nipigon work, for 150 miles further east, to the junction of the Abitibi work, under contract to Messrs. E. F. & G. E. Fauquier.

Missanabie Camps.—There were six sub-contractors on this work, and about 1,000 men employed, who were located in nine camps, and housed and boarded in wooden buildings by the sub-contractors.

There were two cases of measles and three deaths, two by jumping from train, and one smothered by falling earth. The general health of the men was excellent, and the sanitary condition of the camps was good. There were two hospitals on the work. A. Henderson, M.D., of Cochrane, Ont., is the chief medical officer, and he had two assistants, one in charge of each hospital, as follows: Dr. Kinsey and Dr. Lipman.

Abitibi Section West.—From about eight miles west of the Abitibi river, crossing westerly for 100 miles. This is under contract to Messrs. E. F. & G. E. Fauquier, of Ottawa. Access thereto is had from Cochrane, Ont. A. Henderson, M.D., is the chief medical officer of the work, with residence at Cochrane.

Abitibi West Camps.—E. F. Fauquier is the sub-contractor. About 300 men are employed, who are located in five camps, extending over 50 miles of the work, and they are housed and boarded in log buildings by the sub-contractor.

There were two deaths from accident. The health of the men and the sanitary conditions of the camps were good. There was one well-fitted hospital on the work, the chief medical officer, Dr. Henderson, residing at Cochrane, and visiting the camps adjacent. This section is completed.

Abitibi Section East.—From about eight miles west of the Abitibi river, crossing easterly for 150 miles. This section is under contract to the Grand Trunk Pacific Construction Company, and was sub-let by them to Messrs. Foley, Welch & Stewart, who had their headquarters at Cochrane, Ont.

Only one hospital has lately been maintained on the work. John McCombe, M.D., is the chief medical officer, with two district medical officers as assistants.

Abitibi East Camps.—Messrs. Foley & Co., and Shea & Egan were the sub-contractors, with three sub-contractors under them.

About 400 men were employed, who were located along the line in four camps and several house cars, and boarded and housed in wooden buildings and cars by the sub-contractors. There were two deaths, one from accident and one from drowning. There were two cases of erysipelas. The general health of the men and the sanitary conditions of the camps were good. One excellent hospital was maintained for these camps, located at Peter Brown Creek, within easy access to the construction works and camps. D. R. Cameron was the resident medical officer latterly on the work, and had the assistance of Dr. L. M. Dawson in the early part of the season. This work is now about completed.

Ontario and Quebec Section.—From the easterly limit of the Abitibi East Section, sub-let to Messrs. Foley, Welch and Stewart, to a junction with the Quebec West Section at Weymontachene, Que., about 250 miles. This work is under direct contract to Messrs. Macdonnel & O'Brien, and entrance thereto is over their other contracts for the Transcontinental, lately completed by them from Hervey Junction, Que. John McCombe, M.D., is the chief medical officer of the work.

Ontario and Quebec Camps.—Messrs. F. Munro & Co., Macdonnell Co., M. McCarthy, C. L. Hervey, Craig and Thompson, Doheny & Gordon, Frank Waters, Hugh Grant, H. McKinnon, Donovan & Co., O'Brien & Martin, Shea & Egan, The A. J. Hill Co., and Lynn and Brennan are the sub-contractors.

About 3,350 men are employed, who are located along the line in twenty-four camps, and boarded and lodged in wooden buildings by the sub-contractors.

There were two cases of erysipelas and one of typhoid. There were eight deaths, one being from typhoid, one by falling off train, two drowned, one of erysipelas, one killed by derrick, one killed by dump car and one accident. The general health of the men and the sanitary conditions of the camps were good.

Three hospitals were maintained for these camps: No. 1, being a very large main hospital, with four separate wards, and located alongside the track; No. 2, is located at the end of steel; No. 3 is located at Peter Brown creek, as convenient as possible for the west camps of the work.

Doctors Thos. H. Jackson, J. P. Benny and D. R. Cameron, are the district medical officers of the work, one residing in each hospital. John McCombe, M.D., the chief medical officer of the work resides at the hospital, west from La Tuque, and takes charge of and gives the work his general supervision.

CANADIAN NORTHERN ONTARIO RAILWAY.

Port Arthur, Sudbury Section.—This road is being built by Messrs. Mackenzie, Mann & Co., from Port Arthur to Ruel, Ont., a distance of about 550 miles and when completed is to form part of the Canadian Northern Trascontinental line from the Pacific to the Atlantic oceans.

Messrs. Foley, Welch & Stewart and the Northern Construction Co., are the chief contractors. Messrs. Mackenzie & Mackenzie, M.D.'s are the the chief medical officers of all the work, and have their headquarters at Winnipeg.

Loon Camps.—Port Arthur to Red Rock, a distance of 60 miles, P. T. Walsh was the contractor, with twelve sub-contractors, each for short distances under him about 1,020 men were employed, who were located in twelve camps distributed along the route, and were housed and boarded in log or wood buildings by the various sub-contractors.

There had been no contagious or infectious disease, or serious accidents and no deaths. The general sanitary conditions and the water supply were only fair, but the general health of the men had been good.

The St. John Hospital at Port Arthur and the Nipigon Hospital at Nipigon, these being at each end of the work, were used as there is rail service over the Canadian Pacific line.

Austin Evans, M.D., was the district medical officer on the work, which is now completed.

Nipigon Camps.—From Nipigon northeast about 90 miles. The Nipigon Construction Co., were the contractors with eleven sub-contractors under them. About 1,500 men were employed, who were located in fourteen camps, distributed along the route and who were housed and boarded in wooden buildings by and with whom they were employed.

There were twenty-five cases of typhoid, four fatal accidents, and nine deaths, two from explosion, three from typhoid pneumonia, three from land slide and one from drowning.

There were three hospitals, one at Nipigon, mile 71, one at Orient bay, mile 111, and one at Pack Pine, mile 142.

The following were the resident medical officers at the hospitals during the year: A. H. Veitch, C. A. McPherson, M. Thompson, R. Stirrett, Frank Kelly, E. Evans, and E. C. Hanna, all qualified medical men.

Nimigos Camps.—From mile 155 to 200, Foley Bros. and the Northern Construction Co., were the contractors, with several sub-contractors under them. About 1,700 men were employed, who were located in twelve camps situated along the route, and were housed and boarded in wooden buildings, by the contractors or their subs.

There had been no contagious disease, but there were three deaths, one from drowning, one from drinking wood alcohol, and one from heart failure.

The sanitary conditions and the general health of the men had been good, and the water supply excellent.

There were four hospitals maintained for these camps, one at mileage 156, one at Nimigos, mileage 162, one north from Chapleau at mileage 192, and one at Long Lake, mileage 100.

There were four qualified medical officers for these camps, one residing at each hospital.

Missanabie Camps.—From mile 209 to 265, Foley Bros. and the Northern Construction Co., were the contractors, and had camps located along the route. About 275 men were employed and were housed and boarded in wooden buildings by the contractors.

There had been no contagious diseases, or serious accidents, and but one death caused by cerebral abscess.

There were two hospitals maintained, one at mile 233, and one at mile 256. The resident medical officers on the work during the year were Edgar Bissell, N. J. Barton, E. C. Hanna, and Russell Demers, all qualified men.

Hobon Camps.—From mile 265 to mile 320, Foley Bros. and the Northern Construction Co. were the contractors, and had camps located along the route.

About 650 men were employed, who were housed and boarded by the contractors in wooden buildings.

There was one tubercular patient, who was sent to a sanitorium. There were no serious accidents, and no deaths. A good hospital was maintained at mile 300, and C. R. Young, M.D. resided thereat.

Bremner Camps.—From mile 320 to mile 362, Foley Bros. and the Northern Construction Co. were the contractors, and had three camps along the route. About 275 men were employed, who were lodged and boarded in wooden buildings. There had been no serious accidents, diseases, or deaths. A good hospital was maintained at mile 362, and R. A. Dick, M.D. was the resident medical officer.

Ruel Camps.—These are at the extreme easterly end of the whole contract, and the work runs west from Gowganda Junction, the terminus of the present branch line being operated west from Sudbury, Ont. Foley Bros. and the Northern Construction Co., were the contractors, and had eighteen camps located along the route.

About 1,550 men were employed, who were housed and boarded in wooden buildings by the contractors.

There had been no cases of typhoid, no other infectious diseases, there were two serious accidents, and three deaths, from two dynamite explosions. The general sanitary conditions were fair, the water supply excellent and the general health of the men, good.

There were three hospitals maintained on the work, one at mile 91, one at mile 105, and one at mile 125. The following qualified medical officers were resident on the work, during the year, viz: E. J. Finnerty, Thomas Phipps, W. W. Smith, Wm. Cody, L. R. Yealland, and D. C. Richardson.

Section between Sudbury and Ottawa.—This is another part of the Transcontinental line, and is under contract from Sudbury to Pembroke, Ont., by Angus Sinclair, C.E., as chief contractor.

J. Mitchell, M.D., of Toronto, is medical superintendent of this section.

Onwatin Camps.—There were six sub-contractors, having in all seven camps, and employing about 500 men, who are housed and boarded in wooden buildings by the said sub-contractors. There were three cases of measles. There were two serious accidents, with two deaths, one from dynamite explosion, and one man killed by falling rock. The general health of the men, the sanitary conditions of camps, and the water supply were good.

The St. Joseph's Hospital at Sudbury was used. W. N. Robertson, M.D., C.M., was the district medical officer of the camps.

North Bay Camps.—There were three sub-contractors with one camp each, and about 450 men were employed, who are housed and boarded in wooden buildings. There had been no contagious and infections diseases. There were four deaths from accidents. The health of the men and the general sanitary conditions of camps were good.

Dr. Campbell, of North Bay, was the District Medical Officer of these camps.

Mattawa Camps.—There were three sub-contractors on this work, with three camps. About 450 men were employed who were housed and boarded in wooden buildings by the sub-contractors.

There were three cases of syphilis, two of gonorrhœa, one of tuberculosis, but no deaths or accidents, the general health of the men being good, and the sanitary conditions fair. There was a small hospital on the work, and one at Mattawa for major cases. Doctors W. R. Bateman and D. G. McKay were the resident district medical officers of the work.

Kills Camps.—There were three sub-contractors on this work, with six camps. About 300 men were employed, who were housed in board camps, and catered for by the sub-contractors.

There were no serious diseases, deaths or accidents, the sanitary conditions and the general health of the men being good. The hospital at Mattawa was used if necessary. Doctors Malcolm Kinsella and Ivan Annitt, of Kills, were the medical officers of the work.

CANADIAN NORTHERN QUEBEC RAILWAY.

Tunnel under Montreal Mountain.—This is a part of the work in connection with a Canadian Northern Transcontinental railway, and will give that road a western entrance into the city of Montreal. Messrs. Mackenzie, Mann & Co., of Toronto, Ont., are the chief contractors, and Mr. Sidney P. Brown is the chief engineer in charge of the work.

About 600 men are employed, most of whom live in their own houses, and the balance in houses provided by the contractors. The men are boarded by the Consolidated Boarding and Supply Company, of Montreal.

There have been no contagious diseases, fatal accidents or deaths. An emergency hospital is maintained at the West Portal Camp. Doctors Mackenzie & Mackenzie, of Winnipeg, are the chief medical officers, and J. A. Charette, M.D., of Montreal, is the medical supervisor of the men employed.

THE ALGOMA CENTRAL AND HUDSON BAY RAILWAY.

Main Line Extension.—From Mile 68 to a connection with the Canadian Pacific railway at Hobon, Ont., thence to a connection with the Canadian Northern railway at Oba lake, and thence to a connection with the Transcontinental railway at Hearst, Ont. The Superior Construction Co., Ltd., of Sudbury, Ont., T. J. Kennedy, of Sudbury, Ont., and Bourke & McGinnty, were the chief contractors.

About 1,500 men were employed, who were located in sixteen camps distributed along the route, and were housed and boarded in wooden buildings by the said contractors or the Federal Commissary and Supply Co.

There were three cases of erysipelas, two serious accidents, and two deaths from explosions.

The general health of the men, and the sanitary conditions of the camps were good.

Four good hospitals were maintained on the work, one at Oba lake, one at Hobon, one at camp 3, and one at Hearst. R. McLean, M.D., of Sault Ste. Marie, Ont., is the chief medical officer, and had the following assistants during the year as district medical officers on the work, viz.: S. M. McDermott, W. A. Strickland, and D. MacKnight and G. B. Kindrick.

All work on this line has been closed down since last November.

Algoma Eastern Branch.—From Little Current, Ont., north to Whitefish, &c. The Superior Construction Co., were the chief contractors.

About 300 men were employed and were housed and boarded in wood buildings by the contractors. There was one case of typhoid, two serious accidents and two deaths therefrom. The general health of the men and the sanitary condition of the camps were good.

The General Hospital at Sudbury was used. Jas R. McLean, M.D., was the chief medical officer, and Lloyd L. Buck was the resident medical officer on the work.

All work on this branch was closed down last November.

On the above public works in the territory east from Winnipeg, Man., during the term reported on, there was an average of 17,020 men employed, with 46 qualified medical officers in charge of camp hospitals and camps.

Cases of contagious and infectious diseases—	
Measles	5
Gonorrhœa	4
Tuberculosis	2
Typhoid fever	29
Erysipelas	10
Syphilis	1
Deaths and causes as under—	
Syphilis	1
Erysipelas	1
Cerebral abscess	1
Heart failure	2
Tuberculosis	2
Typhoid fever	3
Drowning	6
Killed by derrick	1
Accidents	14
Gasoline explosion	2
Drinking wood alcohol	1
Crushed by cars	1
Falling off train	2
General debility	1
Dynamite explosion	10
Total deaths as above	48

In closing this report for the past twelve months, I am pleased to be able to draw your attention to the fact that although the number of men employed shows about the same as last year, the cases of typhoid fever have been decreased almost one-half, and the deaths fewer than those reported in the previous year. This I consider as due to the sanitary conditions on which the camps were kept, and the care and attention given by the contractors and medical officers in carrying out sanitary conditions, and such clauses of the regulations of the Public Works (Health) Act, 1899, as applied thereto.

In concluding this report, I beg to again suggest for your attention, that for the benefit and convenience of contractors and district medical officers of camps, and for the welfare of employees on public works, that the regulations at present applying under the said Act, be amended within as little delay as possible.

I have the honour to be, sir,

Your obedient servant,

CHAS. A. L. FISHER,
Public Works Health Inspector.

The Honourable
The Minister of Agriculture,
Ottawa, Ont.

APPENDIX No. 17.

(A. E. Clendenan, M.D.)

Edmonton, Alta., April 1, 1913.

Sir,—I have the honour to submit the following report for the year ending March 31, 1913, as inspector under the Public Works (Health) Act, as applied to Western Canada:—

The volume of work has greatly increased during the last three years, with more than ever in prospect for the next twelve months. With few exceptions, the medical service has been up to the requirements of the Act, and bona fide complaints are few. Many of the doctors use motor cars, especially on the prairies, and have thereby increased their effectiveness. A charge of one dollar ($1) per month to employees is made everywhere in my district. The service demanded now-a-days costs that amount where men are employed in small numbers, and close to it when there are thousands on a single contract. The employees in the open country are housed mostly under canvas, and through the mountains, where the work is more permanent, in log buildings and in those made of boards covered with tar paper. With the exception of the office tents, the canvas structures are seldom floored, while about half the log and board buildings have hewed logs or lumber laid down. Camp sites are nearly always wisely chosen, with a view to drainage and water supply, as well as convenience to work.

The fly nuisance is *par excellence* the evil to be contended with, and could be improved by special regulations enforcing screen doors and windows for all kitchens and dining rooms and screen closets. Good food and good cooking prevails everywhere except with some stationmen who supply themselves.

The contracts are not necessarily given below in the order visited, since so much detail would make an annual report cumbersome.

The general health conditions have been exceptionally good. There was no smallpox beyond a few mild or doubtful cases. There was fifty-seven cases of typhoid from April to September on the Canadian Pacific Irrigation Company's ditch work, east of Calgary. No other epidemic outbreaks took place requiring special mention. On all work there was 17,046 employed at the time of inspection and disposed as given hereafter.

CANADIAN PACIFIC RAILWAY.

Lacombe-Moosejaw Line.—Coronation East, 19 miles, contractor was Frank Jackson, and his sub-contractors, Brown, Stokke and Van Buskirk, employing 205 men. There was also a ballasting gang working on 60 miles and 40 miles of tracklaying. Dr. Hurlburt of Coronation, was in charge of the ballasting and tracklaying, and Dr. Mooney, of Consort, on the grade. The water supply was from wells, only, for this part of the line is wholly within what is known as the 'dry belt.' Health conditions were good. The hospital was at Coronation.

Weyburn—Lethbridge (a) Stirling East.—The contractor was John Timothy, and the sub-contractors were Sullivan, Scott & Reid, Bailey, Larsen & Peterson, and Foley Brothers. 136 men were employed, and were in charge of Dr. F. A. Keillor, of Raymond, who had a hospital at Stirling. There was 25 miles to cover, and the service was satisfactory.

Weyburn—Westerly (b).—Ed. Petersen was the contractor, and the sub-contractors were Morrissey, Davis, Sampson & Sons, Wynn, Shipman Brothers, Leach & Rutledge, Struder & Gorman, Schultz Brothers, McKenna and many stationmen. 355 men were employed. Dr. Wheeler was in charge, with a hospital 16 miles west of Viceroy. Wells had to be depended on, and water was in many cases hauled considerable distances, and even then often quite alkaline. There was no sickness.

Suffield-Kipp.—J. G. Hargraves was chief contractor, and the sub-contractors were Morrison & Kusack, McLee, Anderson and Kerr. There were only 261 men on the job, and were looked after by Dr. Steele, of Suffield, who travelled along the line every week en route to visit the camps of the Southern Alberta Land Irrigation Company. Arrangements had been made to send patients to the Medicine Hat Hospital at $1.25 per day. Well water, only, was available. There were eight cases of typhoid, but no deaths reported.

Swift Current—Northwest.—Cabri to South Saskatchewan river, 40 miles, Dutton and Timson were the contractors, and the sub-contractors were Clark, Brown, Caughey Brothers, Saugren, and stationmen. In all 327 employees were engaged. Dr. K. C. Cairns, of Swift Current, using the Swift Current City Hospital, was assisted by Dr. J. Knippel, of Cabri, on the grade. Wells were in vogue, and sickness was conspicuously absent.

Regina—Moosejaw, and Moosejaw—Chaplin.—Double-tracking.—Dutton and Timson were the contractors. The sub-contractors were McPherson and Dutton, Gate City Co., Traynor, Molloy Brothers, Paget, McRae and Briscoe. They engaged 220 men. There was respectively 42 and 53 miles under construction. Dr. R. H. Smith, of Moosejaw, using the Moosejaw City Hospital, was assisted by Dr. Young, and there was no sickness to mention.

Kootenay Central.—Colvalli, north from the Crow's Nest line, and from Golden south from main line through the Kicking Horse Pass. The Canadian Pacific railroad were doing force work on the bridges, and culverts and ballasting, and the 60 men employed were in charge of Drs. King and Green, of Cranbrook, any cases of sickness being cared for in the Cranbrook Hospital. Burns and Jordan also employed 80 men, who were under the same medical service. This firm has lately taken the contract for the balance of the road between Golden and Colvalli, and hope to finish it this year. From Golden south, Janse, Boomer and Hughes were the contractors, with 60 men. Dr. Taylor, with a hospital in Golden, was giving a good service. There had been none but minor accidents, and no deaths.

Kettle Valley Line between Penticton and Merritt.—From mile 25 south of Merritt to Coquohalla Summit at mile 38, Twohey Brothers are the contractors, having six camps, employing 350 men. On the Penticton end for 18 miles Grant Smith is the contractor, having three camps and 150 men. Dr. Ker has the contract for the medical work, and employs Dr. Gillis of Merritt, and the Nicola Valley Hospital on the Merritt end, and Dr. Davis with a private hospital at the Penticton end. The camps are large and well built and the general health good, there being the very best of water and unpolluted mountain streams. There were a few minor accidents.

GREAT NORTHERN RAILWAY.

Coalmont to Canyon House.—From Princeton over Hope Mountain in Southern British Columbia, 20 miles is being built by Guthrie and McDougall, with (1) Wardenhoff and Jacobson and (2) J. G. McLean as sub-contractors. There are in all seven camps and 505 men in care of Dr. McCaffren, of Princeton, B.C. He has a hospital located in Princeton. There were three serious cases of non-epidemic sickness and no deaths.

CANADIAN NORTHERN RAILWAY.

McLeod-Crows Nest and McLeod North.—The contractors are the Northern Construction Company. The sub-contractors are (1) McDonald and (2) Jas. O'Connor, who had re-sublet to Whelan & Malong, Wilson, Erickson, Murphy, J. Whelan, and Duggan & Young. They had 133 men employed, with Dr. Kennedy of McLeod, Alta., in charge of patients in the hospital in McLeod town, and Dr. Reid on the grade. He was covering 35 miles and all was satisfactory on the work.

Camrose—Strathcona.—The Northern Construction Company, the chief contractors sublet all of the 16 miles in this contract to Owens, Swan, Thompson & Davis, and about 75 stationmen. In all there were 240 employed. Drs. Stewart and Smith of Camrose looked after the camps, and when necessary sent cases to the Edmonton hospitals, as well as taking them to the Camrose Hospital. The work was finished early last summer, and without any untoward conditions arising.

Goose Lake Extension.—The Northern Construction Company were the chief contractors, and sublet the work to G. Bryson, A. C. Bryson, Sinclair, Miller and Turnbull, Anderson, Doyle, Wilson and numerous stationmen. 353 were engaged on the grade over a distance of 25 miles. Dr. Grant with a hospital on the grade furnished the medical service. On this work wells had to be relied on since this line is now extended well into the 'dry belt.' The camps moved frequently and generally health was good.

Gravelburg Extension.—W. J. Cowan, the contractor, sub-let to Keck Brothers, F. J. Peterson, Thompkins, Peterson & Nicholson, and Mathew Peterson. 200 men were engaged. Dr. Fraser with a tent hospital at F. J. Peterson's camp, looked after the 25 miles of grade. The service was only fair, but the employees were free of unusual sickness.

Vonda—Melfort.—C. H. Richards and nephew, had two camps and 81 men. Dr. W. Mackay was the medical officer, and sent any cases to be had to Saskatoon hospital, where Dr. Peterson looked after them.

Dalmeny—Laird Branch.—This 15 miles was being built by J. W. Miller, and two small subs with 50 men looked after by Dr. Hodgins who was also with a Canadian Northern railroad ballasting gang on the main line. The hospital in North Battleford was being utilized.

Prince Albert—Battleford.—Cowan & Co. were the contractors. Wilson & Woodward and Jas. McKenzie, and smaller subs employing 200 men were spread along 30 miles of right-of-way. Dr. Simpson was in charge and had arrangements with the hospital in North Battleford.

Peace River Branch.—Pembina River to McLeod-Athabaska Crossing. The contractors are the Northern Construction Company, whose sub-contractors are the Tobin Construction Co., John Bradley, Berry, Cooney & Farrel, Bishop & McLean, Bumble, Mann & Co., T. Hopgood, W. Hopgood, Allen Brothers, W. T. Mackenzie, Burke & Gorham. In all there were 449 employees, taken care of by Dr. Ross, with a tent hospital on the line. There were no complaints or deaths due to the work, and little sickness.

Edmonton—St. Paul de Metis.—The contractors are the Northern Construction Company, who sub-let to McCrimmon, who with subs had 98 men. Dr. Rippon of North Edmonton utilizing the Edmonton General hospital, gave the men good attention.

Main Line between Pembina River and Yellowhead Pass in Alberta.—The chief contractors are: (1) Phelan & Shirley, who have as sub-contractors (*a*) Shepherd & Stevens, (*b*) W. T. Parsons, (*c*) A. S. Wright, (*d*) C. E. Sandine, (*e*) Wright, (*f*) stationmen (*g*) Lundberg & Co.

(2) W. T. Parsons on tunnel work.

(3) Jas. O'Connor.

(4) Canadian Northern railway force work on Athabaska bridge, Big Eddy and mile 149, also a steel laying gang. In all there were 1,055 men on this stretch of work, and the medical service consisted of: Dr. Wellwood of Entwistle, with a hospital at Entwistle. He had easy access to the 50 miles of nearly finished work in his district, from the Grand Trunk Pacific railway. The whole of this line from Pembina river to the Yellowhead Pass, parallels the Grand Trunk Pacific railway and is within a few minutes walk at any point, a condition which greatly assists the

medical service. Next west was Dr. Sexton, at Hinton, with a small hospital for emergency cases. Then followed Dr. Myers, at Fitzhugh, with a base hospital and Dr. Jardine on the grade west of that place to the summit of the Pass. The hospital records showed nine cases of typhoid and no deaths. The accidents were not in numbers out of proportion to what is always occurring on a mixture of earth and rock work.

One complaint was received of an important contractor pitching on an old Grand Trunk Pacific camp ground, and a special visit was made to investigate. There was no other place for him to camp convenient to his work. He spent a good deal of money and made a thorough clean up, and was let remain. No bad results followed.

HUDSON BAY RAILWAY.

The Pas to Limestone Lake.—The chief contracting firm is McArthur & Boyd. Their sub-contractor is McMillan Brothers, who have under them Stewart & Jones, Luky, DeCreen, Ray, and some stationmen. All told there was 500 men engaged. Dr. M. R. Simpson, Winnipeg, is chief, and Dr. Orok, The Pas, is on the work. The hospital used is St. Anthony's at The Pas and occasionally Dr. Gillis of The Pas assists. There is an emergency hospital at mile 40. There was one typhoid and a few minor troubles, and no deaths and no complaints.

EDMONTON-DUNVEGAN RAILWAY.

J. D. McArthur is the contractor and principal. He sub-lets to D. F. McArthur, who subs a part of the work to Hansen & Co., Porteous & Co., who re-lets to six others, some of whom sub again. There are also stationmen, clearing gangs on right-of-way, and road crews. The total number was 346. Dr. Farquharson, Edmonton, is in charge, and had Dr. Williams on the grade, the two of them looking after 60 miles. The hospital employed was the Misericordia in Edmonton. There were two mild cases of smallpox and nothing else worthy of remark.

GRAND TRUNK PACIFIC RAILWAY.

Prince Albert—Wakaw.—This branch was nearly completed by the original contractors, Sutherland and Birchall, assisted by Clark & Co., each with one camp and 20 men. They were all working close to Prince Albert where a doctor could be called at any time and no medical service had been arranged, and no fees were being collected.

Biggar—Battleford.—J. Daudeland was completing this work with 60 men and had engaged Dr. Blyth with arrangements at Battleford hospital to take care of any cases of sickness.

Cutknife Branch from Battleford to Wainwright, on the main line.—C. C. Barnes was the contractor, with five subs: Leach, Curry, Barnes, Hill and Turnbull. 123 men were engaged in all, and Dr. Stanley Miller of Battleford, using the Battleford hospital, was giving good service. He covered 50 miles of scattered operations with a motor car.

Main Line from Prince Rupert to Burns Lake.—Chief contractors are Foley, Welsh and Stewart, who have sub-let to Wall and Swann (wooden bridges), Norman McLeod, mile 20 East of Hazelton, Frebert and Stone, Foley, Welsh & Stewart (Chicken Lake), Neuse and Williams, Bostrom, Hugh McLeod, Freberg and Stone, M. Shady, Albi, D. Ross, John McLeod, Paget, Stewart Brothers and Rankin at mile 142 East of Hazelton, stationmen about 140 from Aldermere west. There was also Foley, Welsh & Stewart's teamsters, roadbuilders, Barrett's cache, Hazelton cache and Arnott's pile driving gang. There were 1,426 employees. The chief medical officer is Dr. Ewing, who resides in Vancouver, and occasionally visits the work. His assist-

ants resident on the contract are: Dr. Kearney at mile 23 east of Hazelton, with a hospital of 6 beds. He was covering 50 miles of scattered work, nearly completed, with a saddle horse. Dr. Sproule takes charge from mile 56 to 102, with a hospital of eight beds at mile 74. He had a team of horses and covered 46 miles. Next east on the line was Dr. Webb from mile 114 to 151 with a hospital of 24 beds, covering 40 miles with a saddle horse. There is a telephone throughout the whole line and calls are always responded to promptly. The hospitals on this work are better equipped this year than last, but have not been kept as clean and tidy as they should be all the time. The chief surgeon is supposed again this year to return to the line and give it his personal supervision.

There are two other direct contracts from the Grand Trunk Pacific, one is A. McDougall with 100 men extending the yard room in Prince Rupert, and the other Bates and Rogers with two camps and 190 men lining tunnels along the Skeena river. Dr. Trewayne of Prince Rupert is in charge of both, and takes his cases to the Prince Rupert hospital.

On the whole west end, there are 1,716 employees. Only four cases of contagious diseases of serious character were reported and four sudden deaths from explosions. There was at all times the usual percentage of ordinary ailments and many minor accidents.

Brandon—Hart Branch.—Hyland, Plummer & Galloway have sub-let to Wm. Bradley, who only engaged about twenty men on the eight miles nearest Brandon. No service had been arranged or fees collected.

Mountain Park and Alberta Coal Branch.—This work is nearly completed by Phelan and Shirley, who still employ 170 men. Bates and Rogers are lining a large tunnel with 120 men. Dr. Shilabeer, with a hospital at mile 37, is still in charge. There are phones throughout the line, and the service has been good. There were two cases of erysipelas, four typhoids, and four sudden deaths from explosion.

Tete Janne Cache to Ft. George.—The main line of Grand Trunk Pacific west of Yellowhead Pass. Foley, Welsh & Stewart are the chief contractors. The work is sub-let to H. E. Carlton & Co., who have 11 camps. A. E. Griffin & Co., who sub-let to Winston, Byrne and Duffy, Morton Emmons, O'Reilly & Co., and Corrigan & Griffin, Burns, Jordan & Co., with eight camps of their own and sub-contractors, Emmerson Brothers, Gorman & Poole, Chien and Welsh, Presby and O'Brien, M. J. Burns & Co., and McDonald & McCarty. The remaining smaller contractors are M. F. Carey, Lund & Rogers, D. J. Carey & Co., McGriffin, Bergh & Co. The total number of men employed is 3,915. The camps were all built for winter quarters, and have been occupied by nearly full gangs. About half of them were floored. In all of them there was a number of men sleeping two in a bunk to economize in bedding. This is not good practice on railway work, but the men ask for the wider bunks. At time of last visit in November, approximately four-fifths of the men were between Tete Janne at mile 53 B.C. and mile 130 B.C. Dr. Richardson is chief surgeon and in charge of the other resident physicians on the contract. Stationed further west is Dr. Falconbridge, at Fort George, with a hospital at that point. He looks after a right of way cutting gang and the few scattered along the grade just commencing operations in that section. The next hospital to the east of this is at Willow river, with Dr. Nasmith in attendance. There were 35 beds and no patients. The work was new, and the hospital was in anticipation of the contractors who were soon to move farther west. Next going east was Dr. Grey, at mile 160, with a 15 bed hospital and no patients. The next in order was Dr. Richardson's headquarters and base hospital at mile 114, with 85 beds. Dr. G. H. Smith was assisting. There was surgical and medical wards and an operating room and contagious ward. There were nearly 50 cases in the wards. There was eight cases of infectious and con-

tagious disease, and three deaths from sickness. No fatal accidents had occurred from explosions, though there were many minor injuries from various causes. The next and last hospital was at Tete Jaune Cache, mile 53, with Dr. Baker in charge. There were 22 beds and eight cases in the hospital, one of which was typhoid. There are trained nurses at all the hospitals, and telephones as far as mile 166. This is one of the best medical services in Western Canada.

SOUTHERN ALBERTA LAND COMPANY IRRIGATION DITCH.

Chief contractor of this work is D. F. MacArthur, to the westward. His subs are: Thacker, McMillan, Fogarty, Devereaux, Cairns, Wynham, Malin, Olsen & Nelson, Cameron, Fitzpatrick, Holden & Christensen. To the eastward the Southern Alberta Land Company had a large flume camp, and as sub-contractors on the ditch: Crandell Brothers, Ham, Swanson & Anderson, and Corsan. There were 439 employees. The medical service consisted to the west of Dr. Harris, of Taber, with a hospital at Taber, and Dr. Steele, of Suffield, using the hospital at Medicine Hat to the east. There were six cases of typhoid in one small camp which was moved to make an effectual clean up, and two cases in another. One death resulted. South of Gleichen the Southern Alberta Land Company had two camps. D. MacArthur, R. D. McGregor, G. H. Sissons, making a total of 522 men, with Dr. Farquharson of Gleichen in charge. The hospital used was the Holy Cross hospital of Calgary, where Dr. McGuffin was engaged to look after those sent in. There were nine cases of typhoid and two deaths during the summer.

CENTRAL ALBERTA RAILWAY.

Red Deer to Rocky Mountain House.—The contractor is D. F. MacArthur, who had three camps, 30 stationmen and a ditch camp, making a total of 245 men. Dr. Parsons of Red Deer, asisted by Dr. Mackenzie on the grade and utilizing the Red Deer hospital, were giving a good service.

Biggar—Calgary.—Twenty-five miles from Biggar, Sask., toward the southwest. Phalen & Shirley are the chief contractors, and their subs are D. Fitzgerald, Biggs and Clement, Mahoney, A. J. Rethwell, J. Fitzgerald & Jameson. 130 men were engaged and in charge of Dr. Chandler of Harwell, with a hospital at Harwell. There was no sickness.

MOOSEJAW—REGINA.

Marsh, Siems.—Carey, Smith & Co., and Rigby, Hyland and Plummer, with a camp each and 165 men in all were completing the last four miles of this work. Dr. Bawden, using the Moosejaw city hospital was in charge. Conditions were good.

CANADIAN PACIFIC IRRIGATION COMPANY.

This is east of Calgary, along the main line of the Canadian Pacific Railway. Janse, McDonald, are the chief contractors. The sub-contractors are: Ambursen, Hydraulic Construction Co., Grant Smith & Co., J. L. McKenney & Co., Jamieson and Kittiwell, Janse Brothers, Boomer and Hughes, Clifford & Co., McCorkendale Brothers, Janse Brothers, McNamara & Worth, McLaughlin, Kimball Brothers, Jackson, McKinney, and subs: Tobin, Noehren and Mannix and subs, Thursfield, Dukelaw & Sons, Brandenberg, Marshall, Pearson, Calwait, Kimble Brethers and subs, and other smaller contractors. There were 1,550 employees. Drs. Ker and Haszard were the contractors of the medical service. Dr. Haszard visited the round of camps by motor weekly and took care of the cases sent to the hospital in Calgary. Drs. Harris and Scott took charge of the camps in the district about Bassano. Dr. Anderson was in charge of the district around Brooks and of the hospital in Brooks. The

exact mileage covered by each cannot be given and varied greatly on account of the main ditch having so many tributaries with camps on them that frequently changed their location. There were 57 cases of typhoid, of which a detailed statement is as follows:—

REPORT of Typhoid Fever occurring in construction camp of C.P.I.D. from April, 1912, to September 5, 1912.

Name of Contractor.	Location of Camp.	No. of typhoid patients.	Water Supply.	Condition of Camp.
J. L. McKinney & Co...	Team camp on Flat Bassano Dam.....	8	Well and gravel pit.....	Good.
" " ..	Main camp, Bassano Dam....	19	River water.....	Bad.
Ambursen Con. Co	Main camp	2	"	Good.
Grant Smith.....	Bassano Dam Flat.....	13	Gravel pit until 3 weeks ago...	"
"	Flume camp at Brooks.	5	Well water.....	"
McNamara & Worth....	10 miles north of Bassano....	1 teamster.	"	"
John Timothy	17 miles N.E. of Bassano.....	1	"	"
Kimball Brothers.....	3 miles N. of Bassano.....	1	"	"
Tobin.....	3 miles S. of Bassano, Crawling Valley....	1	River water.....	"
Janse Brothers.....	6 miles south of Southesk . ..	3	Open shallow well.	Fair.
Noehren & Mannix.. ...	12 miles south of Brooks.. ...	1	Well water.. ...	Good.
S. Thursfield.....	....	1		
Dukelow & Sons.....	2 miles S.E. of Cassils.... ..	1	"	"
		57		

All of these cases were taken care of at the hospital at Brooks, where there is a staff of three graduate nurses, and Dr. C. E. Anderson on duty.

In two or three instances, I found a disposition on the part of the contractors to collect fees for a while after work commenced, before they had made arrangements for medical service.

A. E. CLENDENAN,
Public Works Health Inspector.

The Honourable, Minister of Agriculture,
Ottawa.

MISCELLANEOUS

APPENDIX No. 18.

EXHIBITIONS.

GHENT, March 31, 1913.

SIR,—I beg to submit the following report regarding the operations of the Canadian Government Exhibition Commission during the twelve months extending from 31st March, 1912, to the 31st March, 1913.

CRYSTAL PALACE EXHIBITION.

The Government having decided to extend for another year the exhibition which they had put up in the Pavilion especially constructed for the Festival of Empire of 1911 on the grounds of the Crystal Palace it became necessary to make repairs to the exterior of the building and also changes and improvements in the interior, with a view to create fresh and renewed interest in the Canadian exhibit. To achieve this end the painting of the exterior, which had greatly suffered from rains and frost during the winter season, was entirely renewed; the decoration scheme of the interior was also changed and improved; a re-arrangement of all the exhibits was made; fresh fruits were installed in the horticultural section, and all exhibits which were deficient in quality or appearance were replaced by new ones.

The Pavilion was opened to the public from the 1st of May to the 24th of November, 1912, and although the number of people visiting the grounds did not come up to the 1911 mark, they were the kind we wanted, all being interested regarding Canada.

IDEAL HOME EXHIBITION.

In April, 1912, we placed a strong fruit exhibit in the Ideal Home Exhibition held in the Olympia, and promoted by the *Daily Mail*. This exhibit was favourably commented on in the daily press.

THE ROYAL AGRICULTURAL SHOW.

From the 22nd to the 30th of May, 1912, a great horticultural exhibition was held at Chelsea, London, in which the British Isles, France, Germany, Holland, Belgium, &c., took part. Canada was invited to participate, and, according to your instructions, I organized a Canadian horticultural section on these grounds. Canada showed in marquee 40 x 40 feet, which contained fresh apples in baskets among shrubs and plants grown from Canadian seeds, as well as a large variety of preserved fruit in their natural state on branch, and otherwise. Our exhibit was visited by their Majesties the King and Queen, Earl Grey, Lord and Lady Minto, and several other distinguished people. His Majesty commented favourably on our fruit exhibit, especially the bottled fruit.

I believe the decision of Canada to participate at the Royal International Horticultural Show was a very judicious one, as from all reports this exhibition was the finest of its kind held in Europe for the last twenty years. It attracted a very large

number of visitors from all over the British Isles and the Continent of Europe, who had thus the opportunity of acquainting themselves with the great horticultural resources of Canada.

THE PANAMA PACIFIC EXPOSITION.

Immediately after the closing of the Royal Agricultural Show, I left for San Francisco, California, in order to select the site to be occupied by the Canadian Section at the Panama Pacific Exposition of 1915, and was very well received by the members of the Executive Committee of the Exposition who placed at the disposal of Canada, free of charge, a large piece of land in one of the best parts of the grounds and covering an area of 250 x 500 feet. This site is close to the sites selected by the Western States, and in making this selection I thought it would be of great advantage owing to the large number of people who have gone to Canada from these States. Many of these people along with others will, as at Seattle, be much interested in the Canadian exhibit.

IMPERIAL INSTITUTE.

On my return to London at the end of July, I resumed my duties at our exhibit in the Crystal Palace grounds. I availed myself of the opportunity of the exhibition staff being in London to have some repairs and improvements carried out in the Canadian section of the Imperial Institute, for which a sum of money had been placed in the estimates. In the course of August, September and October, some members of my staff were engaged in putting our exhibit at the Insitute in a better condition. The agricultural and horticultural show-cases and the decorations of the section were rearranged or renewed; fifty decorative panels and numerous designs of various dimensions, and all executed in Canadian grain and grasses, were added to the ornamentation of the section; a large case was also erected for bottled fruit. This display, for quality, is admitted by all to be the best that has been placed before the public of London. Besides this, a section of the court was finished to receive a large map of Canada, the map being placed behind glass, the whole being in keeping with the general exhibit.

From the reports of the authorities of the Imperial Institute, the Canadian section is very largely attended and proves to be very popular.

GENERAL WORK.

I may also mention here that during the year 1912 we received from many concerns in London who are intimately connected with Canadian national life and who had the opportunity to appreciate the work achieved by the Canadian staff of decorators in the pavilion at the Crystal palace, requests to help them in decorating and dressing up their show-windows with the specimens of Canadian products which they wanted to place before the public eye. We thus contributed to the decoration of the show-windows of the Ontario Government offices, on the Strand; the Quebec Government Offices, Kingsway; the Canadian Pacific Railway, Trafalgar Square; the Grand Trunk Railway, Cockspur Street, and the Canadian Northern Railway, in the city. All these companies contributed to the cost of the work done. Besides these, we also did the Canadian Government Emigration Offices, Charing Cross, and the front window of Messrs. Thomas Cook & Sons' general offices.

THE CHILDREN'S WELFARE EXHIBITION.

From December 31, 1912, to January 10, 1913, an exhibition called the Children's Welfare Exhibition, organized by the London *Daily News and Leader*, was held at the Olympia, London, and, according to the instructions received from your depart-

ment, I advised the committee that Canada would participate therein. We secured on the main floor a central position measuring about 3,000 feet, which formed a hollow square surrounded on three sides by show-cases containing many varieties of fresh apples, bottled fruit in preservation, cereals, tinned vegetables, &c., and showing in rear of the cases transparent photographs of agricultural scenes. The interior of this square contained a large panorama illustrating the route of the railway from Port Arthur to British Columbia; a miniture railway traversed the whole route with about 250 feet of tracks, the freight trains stopping at elevators for loading wheat, &c. Our exhibit obtained a great success; as a matter of fact, it was the great drawing card of this exhibition.

THE GHENT EXHIBITION.

In September I crosesd to Belgium to secure the site intended for the Canadian Pavilion at the Ghent Universal and International Exhibition, in which the Canadian Government has decided to participate on a large scale. An area of land measuring about 50,000 square feet was offered to us free of charge, and I accepted it at once, as its location seemed very favourable to me.

In Ghent I found the people, who are principally Flemish, very ambitious that their exhibition should be more effective than the one held in Brussels in 1910, and in some respects I think they will succeed in doing so. The Commissioner General for the government and the president of the executive committee of the exihibtion are both Flemish and expressed their anxiety to have Canada make a still better display than at Brussels, admitting at the same time that our section at Brussels was better than at Liege; furthermore, they wanted the greater portion of the reading matter explaining the different exhibits to be written in Flemish. To do this it meant that the reading matter had to be in four languages: French, Flemish, English and German.

At other expositions on the Continent where Canada participated, we have had a few Germans employed on construction work, but on our building here this number has increased to 25 per cent of the number of men employed. German carpenters are good mechanics and good workers, and very much interested in Canada. The German exhibit is close to our pavilion, so that we expect to get quite a good proportion of German literature disposed of amongst these people; in fact our pavilion is well placed to reach the natives of countries in which Canada cannot carry on an emigration propaganda, and feeling that this was our great object in making this exhibt, and considering the wish expressed by the authorities of the exposition, as mentioned above, and also that it was in the interest of Canada to do so, especially when she will have no other opportunity to exhibit under similar circumstances on the Continent of Europe for many years, I thought it well to do something out of the ordinary, and I may say that both the building itself and the interior decoration and arrangements are by far the best we ever had on this Continent.

The construction work was commenced early in November by the large firm of Humphreys, Ltd., of London, who hold themselves entirely responsible for the work in consideration of a commission of fifteen per cent on the cost of the building, this including salary and expenses of the architect and clerk of works, who have been on the grounds for five months. All the interior decorations are made in Canadian grasses and straws and include a series of tableaux representing a large variety of Canadian landscapes, agricultural and horicultural scenes, &c.—the whole of which produces a most impressive and realistic effect. Our exhibit consists of the products of agriculture, horticulture, mines, forestry, fisheries, fauna, agricultural machinery, railroad transportation, &c. All our exhibits are in splendid condition and form a comprehensive collection of the productions of Canada, and I feel certain that their

intrinsic value coupled with the manner in which they are placed before the public will attract a great deal of attention and ensure the success of our participation at this great World's Fair.

The whole respectfully submitted.

WM. HUTCHISON,
Canadian Exhibition Commissioner.

To the Honourable Minister of Agriculture,
Ottawa.

APPENDIX No. 19.

THE SEVENTH INTERNATIONAL CONGRESS AGAINST TUBERCULOSIS, ROME, ITALY.

SIR,—Acting upon your commission of March, 1912, as one of the delegates to the Seventh International Congress on Tuberculosis held in Rome, April 14 to 21, I beg leave to report upon matters which were submitted to the members of the Congress, and in addition wish to submit material collected throughout Europe during the six months which preceded it.

THE CONGRESS.

It was well attended, in spite of its having been deferred from the autumn of 1911. With few exceptions, the various countries of the world were represented by one or more delegates. The Italian profession flocked to Rome from every corner of the Kingdom, while many of the Italian savants spared no efforts to bring enlightenment to their own countrymen, giving the foreign delegates every opportunity to benefit by the fruit of their labours.

One naturally asks what was the chief feature of interest brought out at such a gathering?

There were many interesting communications. In chemio-therapy and helio-therapy much promising material was submitted both at the congress and the conference. The social aspect of the question was well presented by numerous representatives, showing that all civilized countries were quite thoroughly organized in that department. Compulsory notification was pretty fully discussed, winning over a goodly majority of the delegates to the need of the adoption of such a measure in order to make the crusade truly effective.

The influence of alcohol as a factor in the dissemination of tuberculosis was strongly emphasized by a large number of medical authorities.

As at former congresses, the burning question was that of bovine and human tuberculosis, their difference and relationships being fully discussed. In the scope of this report one could not attempt to bring out any part of the discussion. The conclusions adopted finally were but the result of compromise on both sides, and these resolutions were only framed up sentences telling what we have long known, viz., that: The greatest source of danger to man is man himself—not the much maligned bovine.

THE CHILD AND TUBERCULOSIS.

Under this heading much valuable material offered. The most convincing work was that presented by Calmette, of Lille. In fact it is so important that a brief analysis of it is bound to arouse interest. His contention that infection in tuberculosis occurs during childhood is borne out by facts observed by others as well as himself.

Last year between January and June he submitted 1,226 children to the cutireaction (Tuberculine). These children were not attending hospitals or dispensaries—they were looked upon as healthy.

The following table gives a good idea of the results:—

Age.	Number tested.	Infected.
		%
0 to 1 yr	273	9
1 to 2 yrs	145	22
2 to 5 yrs	206	54
5 to 15 yrs	366	81
Over 15 yrs	236	88

Concording with these findings but obtained from an entirely different source are those of Harbitz, of Christiana. In this instance he reports upon autopsies made upon children whose death had been caused by various diseases, to the number of 484, with the following results:—

First year of life	20%	were found to be infected with tuberculosis.
Second year of life	27%	
Fourth and fifth year	44%	
Sixth to fourteenth year	75%	
Fifteenth year	85%	

Calmette claims that at the age of 20 very few human beings have escaped infection by the tubercle bacillus.

What can all this mean?

For a reply we again have to refer to Calmette's experimental work performed upon calves at the Pasteur Institute at Lille. During the course of these experiments he followed as closely as possible the methods which nature uses to infect man. Here he found that his animals readily recovered from a first, a second, a third and in fact many infections, if only the animals were given sufficient time in which to recover. In fact, each infection produced a certain degree of immunity if the lapse of time allowed for recovery was sufficiently long—it always took larger quantities to re-infect. From this work Calmette concludes that among human beings tuberculous disease develops when the doses of infecting material are very large or repeatedly absorbed at short intervals.

In any event, one sees in the mechanism of this childhood infection the role played by nature to protect or vaccinate—truly this should point out to us what ought to be the direction of our efforts to assist nature in her protective work.

Following up this idea of childhood infection, Webb, of Colorado, and Maragliano, of Italy, reported at the Congress attempts to vaccinate children, expressing the hope at the same time that it might yet become possible to do this with a determinate dose of living bacilli injected into the subcutaneous tissues.

Webb's experimental work was done with monkeys; the account of it appearing in the transactions of the Congress will prove interesting reading.

CURATIVE MEASURES.

Here of course endless modifications of older methods were advocated—entirely new methods were also submitted for appreciation. Among the new methods may be mentioned the attempt at curing tuberculous disease by injecting directly into the

blood-stream different chemical reagents. Among the most notable was that advocated by Finckler, of Bonn, consisting of aniline colours with iodine and a copper salt. The results thus far have not been very convincing, but this mode of treatment is being persistently applied by the German school and much is hoped for eventually. Open air methods with generous feeding still remain dominant as the curative factor giving the most uniformly good results. Right here I may be allowed to mention and perhaps *outline* a method of treatment developed in England depending upon fresh air and generous feeding, but systematized.

I was sorry to find that no report upon this method was made at the Congress. To my mind it is one advance made of late years in the hygieno-dietetic treatment. I wish to refer to the Frimley method. The Frimley Sanatorium is the suburban annex of the Brompton Hospital for Consumptives in London. About eight years ago, Dr. Marcus Paterson became superintendent at Frimley and there worked out this method of graduated exercise and labour with periods of absolute rest—splinted rest, so to speak. His report upon results obtained published in the fall of 1911 was decidedly encouraging.

Among the advantages of this method are the following:—

(1) It gives every individual affected with tuberculosis some chance of recovery, many individuals who seemed hopelessly ill have recovered completely at Frimley.

(2) The Hospitable for Incurables becomes unnecessary since patients in every stage of the disease are admitted with some expectation of recovery.

(3) No special climate or altitude is needed, fresh air, generous feeding and supervised exercise with gradually increased labour form the basis of the treatment.

(4) The duration of the treatment is shortened by nearly one-half.

(5) Tendency to relapse is reduced to a minimum.

(6) Employment during the treatment avoids making unfits of recovered patients such as the reclining chair frequently does.

The basic principle upon which the Frimley method is founded is resistance. In tuberculosis this factor resistance has been quite generally understood of late years. 'Increase the physical resistance of your patient and he straight away gets well' is a phrase now in common use by phthisiologists.

I have said that the Frimley method is systematized—in reality it is a system which meets most of the needs of the tuberculosis problem. Founded as it is upon a principle which is rapidly being accepted wherever known it reduces the treatment to a simple formula: Restore the broken down resistance of the patient, whether he be in the first, second or third stage of the disease matters not, he has some chance of recovery even in the third stage, that is what makes the Frimley method worth while; there is no need of a hospital for incurables.

The hospital for incurables is what actually discourages the patient most of all, but think of the philanthropist whose help is sought to build and equip a refuge for the incurables from a disease which is known to be curable. There remains nothing to explain; it is clear that the position we have taken in the past is not right.

Now think of the infection as occurring in childhood and the disease developing in adolescence or later, then the mechanism of resistance appears in a new, a different light. Broken down resistance is really the great factor in the development of tuberculous disease after all. Everybody knows the conditions which bring this about, it is a large sociological problem which is being faced by all civilized countries. We may yet come to the conclusion that infection in the adult is quite secondary as a producer of tuberculous disease. Infection in the child may yet be accepted as nature's method of protecting life. We should read these sign boards more attentively.

In Canada how may we benefit from these congresses and the movement in the world at large? In the first place the budget placed at the disposal of the Canadian Association for the Prevention of Tuberculosis must be sufficient to enable some of its officers or others to keep in very close touch abroad and distribute the information obtained in the shortest possible time at home.

Through this agency field work should be carried on to a final issue in the various provinces and particularly in the large cities. By this I do not mean efforts limited to an occasional campaign alone but the assistance should go far enough so that the organizations in each area should be taught how to raise the necessary funds, how to build, equip and manage the institution brought into existence. The minutiae should be gone into as though one were pursuing the policy of the federal government in its various agricultural departments.

Again, the question of research work in this country is of the greatest importance and should receive assistance. The central association should have funds at the disposal to distribute where such work is done in existing institutions.

Respectfully submitted,

A. J. RICHER.

To the Honourable Minister of Agriculture,
Ottawa.